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United States  
Department of  
Agriculture

Soil  
Conservation  
Service

Salt Lake City  
Utah



# WATER SUPPLY OUTLOOK FOR UTAH

in Cooperation with Utah State Department  
of Natural Resources



May 1, 1984

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent of surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1,900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

<u>STATE</u>	<u>ADDRESS</u>
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mexico)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4418 Federal Bldg., 125 South State St., Salt Lake City, Utah 84147
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 -- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 -- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 -- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



# **WATER SUPPLY OUTLOOK FOR UTAH**

**and  
FEDERAL-STATE-PRIVATE COOPERATIVE SNOW SURVEYS**

**Issued by**

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SOIL CONSERVATION SERVICE  
WASHINGTON, D.C.**

|||||

**Released by**

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SALT LAKE CITY, UTAH**

**In Cooperation with**

<b>UTAH STATE DEPARTMENT OF NATURAL RESOURCES</b>	
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<b>State Engineer</b>	<b>Director</b>
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|||||

**Report prepared by Snow Survey Staff**

**BOB L. WHALEY, Supervisor**

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P.O. Box 11350  
Salt Lake City, Utah 84147**

# PROSPECTIVE WATER SUPPLIES

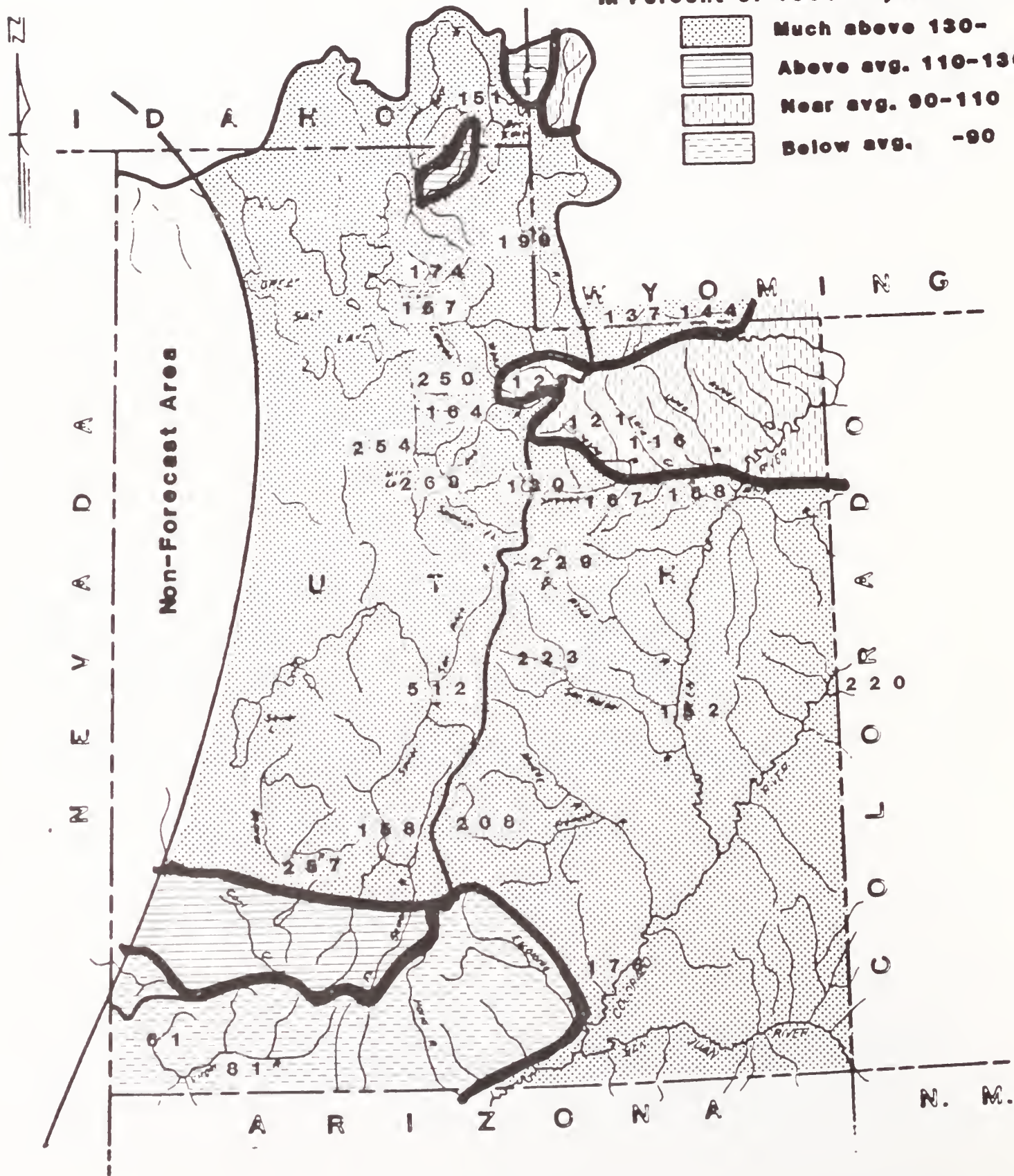
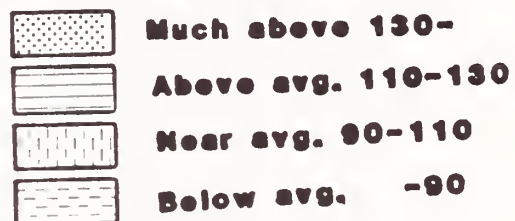
Based on Snow Surveys Made on  
UTAH and BEAR RIVER WATERSHEDS

May 1, 1934

Approximate Date



FORECAST STREAM FLOW  
In Percent of 1961-80, 20 Year Avg



# WATER SUPPLY OUTLOOK

As of May 1, 1984

\*\*\*\*\*  
\* Utah's 1984 Water Supply Outlook ranges from below \*  
\* average on the Virgin River to well above average on the \*  
\* Lower Sevier. Snow cover ranges from 67% of average on \*  
\* the Virgin to 300% on the Fremont River and 226% on Lower \*  
\* Sevier. Soil moisture is wetter than average except \*  
\* along the southern border of the state. Reservoir \*  
\* storage is 123% of average and 74% of capacity. \*  
\* Streamflow forecasts range from below average on the \*  
\* Virgin to eight to nine times average on the Lower \*  
\* Sevier. \*  
\*\*\*\*\*

## SNOW COVER

Snow measurements taken the last week of April show heavy increases to the snow pack in a band between Beaver to Fillmore and East through Fishlake and Salina. Courses in this band increased as much as 12.6 inches of water content when normally they would have lost as much as 3 inches during the month. Many snow courses have set new maximum May 1 water content readings especially in the central part of the state. Basin snow pack percentages are now as follows: Upper Bear 119%, Lower Bear 150%, Logan 135%, Ogden 148%, Weber 144%, Duchesne 122%, Provo 127%, Utah Lake 152%, Tooele Valley 229%, Price 174%, San Rafael 184%, Muddy 163%, Fremont 300%, Beaver 177%, Upper Sevier 131%, Lower Sevier 226%, Coal Creek 69%, Virgin River 67%, LaSal Mountains 178%, and Blue Mountains 96% of the May 1 average.

## PRECIPITATION

Precipitation at mountain stations during April ranged from 50 to 90% of average in Northern Utah and Uintah Basin to as high as 245% in the Central part of the state above Fillmore.

## SOIL MOISTURE

Watershed soils are generally wetter than average and wetter than last year except in the extreme southern part of the state on the Virgin, Upper Sevier, and Blue Mountain areas.

## RESERVOIR STORAGE

Storage in 28 key irrigation reservoirs is now 123% of the May 1 average and 92% of useable capacity. Many reservoirs have been drawn down in northern Utah to provide space for spring runoff. Utah Lake is now 3.89 feet over compromise and Great Salt Lake is 4208.1 feet above mean sea level.

-more-



# WATER SUPPLY OUTLOOK (continued)

## STREAMFLOW FORECASTS

Streamflow forecasts for the May-July period now range from 61% of average for Santa Clara River to five to nine times average on the Lower Sevier.

Delayed melt again this year has generally caused May-July forecast percentages to increase except on the Bear, Duchesne, and Virgin Rivers.

Forecast ranges by basin are as follows: Bear, 102% for Smith's Fork to 196% for Big Creek; Ogden, 159% for South Fork to 174% for Pineview Inflow; Weber, 129% for Oakley to 226% for East Canyon; Utah Lake-Jordon River, 147% for Little Cottonwood to 280 for Emigration Creek; Tooele Valley, 147% for South Willow to 306% for Vernon Creek; Duchesne, 107% for Yellowstone to 188% for Duchesne at Myton; Price River, 220% for Gooseberry Creek to 229% for Scofield Inflow; San Rafael, 213% for Huntington Creek to 223% for Cottonwood Creek; Muddy Creek 200%, Seven Mile Creek 208%; Main Stem Colorado, 152% for Green at Green River to 220% for Colorado at Cisco; 137% for San Juan at Bluff; Sevier River, 112% at Hatch to 921% for Vermillion to Gunnison; Beaver River, 257% at Beaver to 416% for Minersville Inflow; Virgin River, 61% for Santa Clara to 81% for Virgin at Hurricane; 123% for Coal Creek for the May-July period.

High peak flows can be expected on the Lower Sevier-San Pitch, Beaver, Chalk Creek, Price, San Rafael, Fremont, Utah Lake tributaries, along the Jordan River, and Tooele valley streams.

Utah Lake is expected to rise to 5 to 6 feet above compromise again this year and Great Salt Lake is forecast to peak between 4208.8 and 4209.5 feet in elevation.

Property owners near stream channels or these lakes should take precautions to protect property as much as possible to prevent damage.



**RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH**

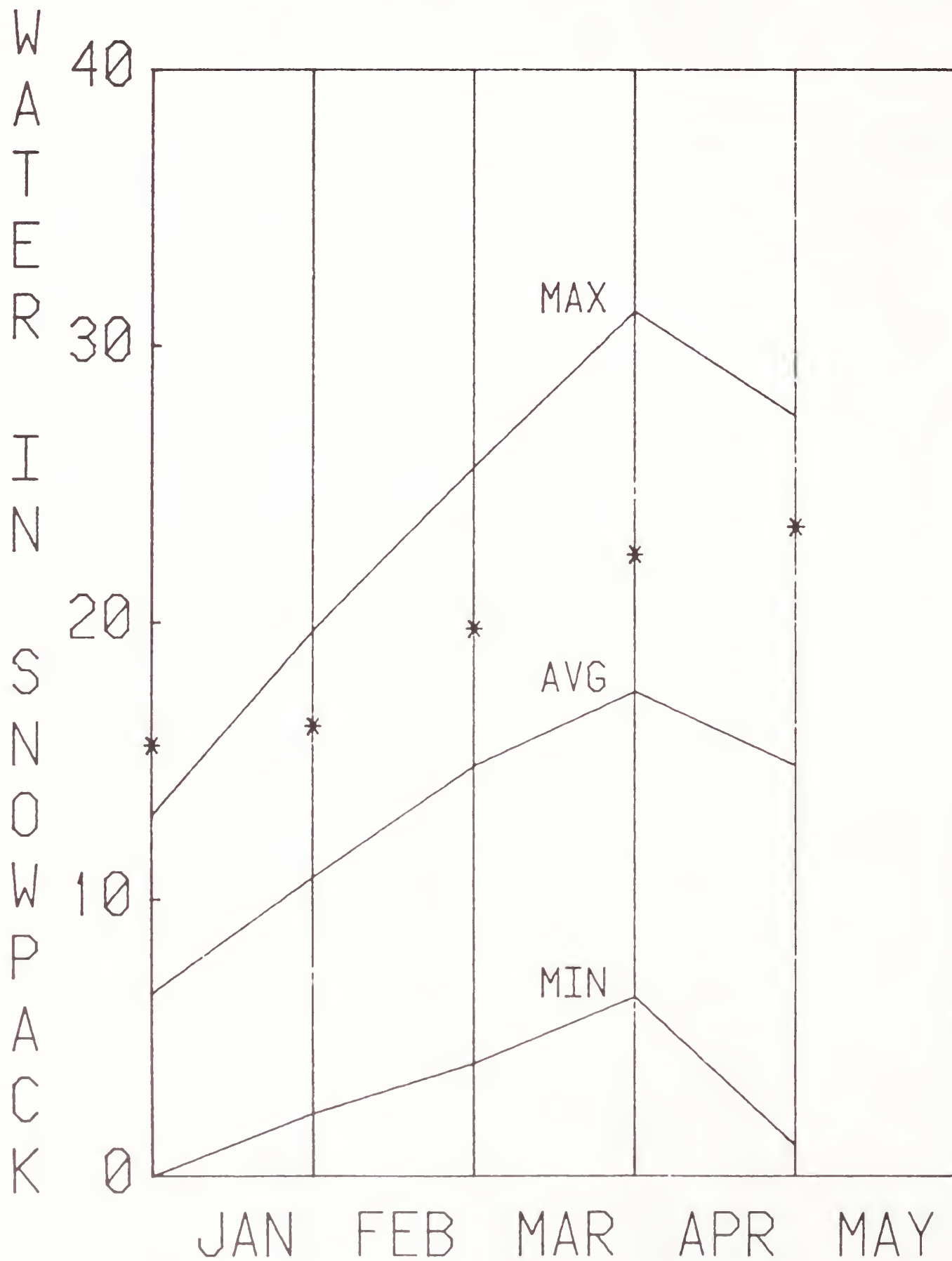
Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
GREAT BASIN					
<u>Bear River</u>	Bear Lake	1421.0	1111.2	1106.4	1054.1
	Woodruff Narrows	55.8	35.0 <sup>a</sup>	55.8	--
	Woodruff Creek	3.5	3.5	3.5	--
<u>Beaver River</u>	Minersville (RkyFd)	26.0	21.1	23.5	14.6
<u>Little Bear</u>	Hyrum	15.3	10.9	10.8	13.2
	Porcupine	11.3	8.1	11.9	9.5 <sup>b</sup>
<u>Ogden</u>	Causey	6.9	0.8	1.8	2.6 <sup>b</sup>
	Pineview	110.1	53.8	83.3	76.6
<u>Provo</u>	Deer Creek	149.7	121.2	112.4	106.9
<u>Settlement Creek</u>	Settlement Creek	1.2	0.8	1.0	0.9 <sup>b</sup>
	Vernon Creek	0.6	0.6	0.6	0.6 <sup>b</sup>
<u>Sevier River</u>	Gunnison	18.2	13.8	17.1	14.9 <sup>b</sup>
	Otter Creek	52.5	48.9	34.5	39.5
	Piute	71.8	58.6	71.4	44.7
	Sevier Bridge	236.0	212.1	227.6	136.0
	Panguitch Lake	22.3	21.7	21.8	--
<u>Spanish Fork</u>	Strawberry	270.0	270.0	263.4	156.0
<u>Utah Lake</u>	Utah Lake	883.9	1287.9	1164.5	766.8
<u>Weber</u>	East Canyon	48.1	27.9	39.6	41.5 <sup>b</sup>
	Echo	73.9	31.1	40.2	54.2
	Lost Creek	20.0	7.7	15.2	14.3 <sup>b</sup>
	Rockport	60.9	25.7	32.4	36.8
	Willard Bay	193.3	135.8	161.1	168.0
COLORADO R. BASIN					
<u>Ashley Creek</u>	Steinaker	33.3	25.7	27.2	23.0 <sup>b</sup>
	Red Fleet	26.0	18.0	20.7	--
<u>Colorado</u>	Blue Mesa	829.5	220.7	434.6	--
	Lake Powell	25002.0	21067.0	22782.0	--
<u>Green</u>	Flaming Gorge	3749.0	3067.4	3248.6	--
<u>Lakefork</u>	Moon Lake	35.8	30.0	33.2	18.1
<u>Price River</u>	Scofield	65.8	28.0	37.6	36.6
<u>San Juan</u>	Navajo	1696.0	1370.0	1316.8	--
	Ken's Lake	2.3	1.2	1.6	--
<u>San Rafael</u>	Huntington North	3.9	3.6	3.6	3.9 <sup>b</sup>
	Joe's Valley	54.6	25.5	33.9	46.8 <sup>b</sup>
	Mill Site	16.7	14.6	15.5	6.3 <sup>b</sup>
<u>Strawberry</u>	Currant Creek	15.5	4.9	--	--
	Starvation	165.3	128.2	117.5	113.5 <sup>b</sup>
	Soldier Creek	951.4	68.5	41.4	--
<u>Uintah</u>	Bottle Hollow	11.3	11.3	11.0	10.6 <sup>b</sup>

a - Partly estimated

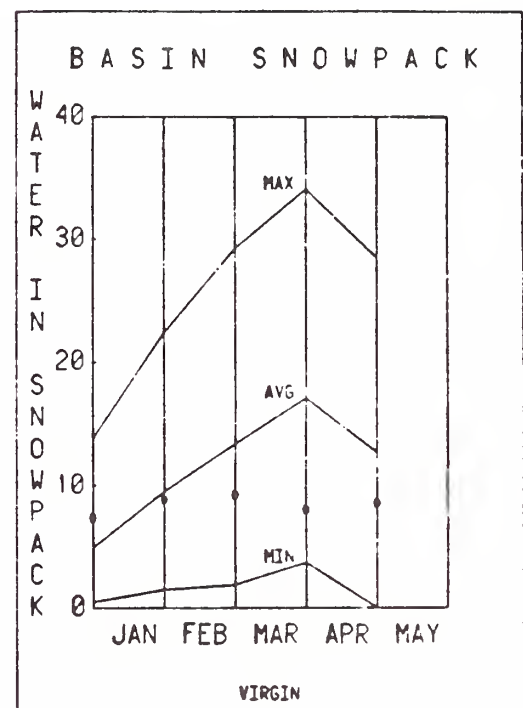
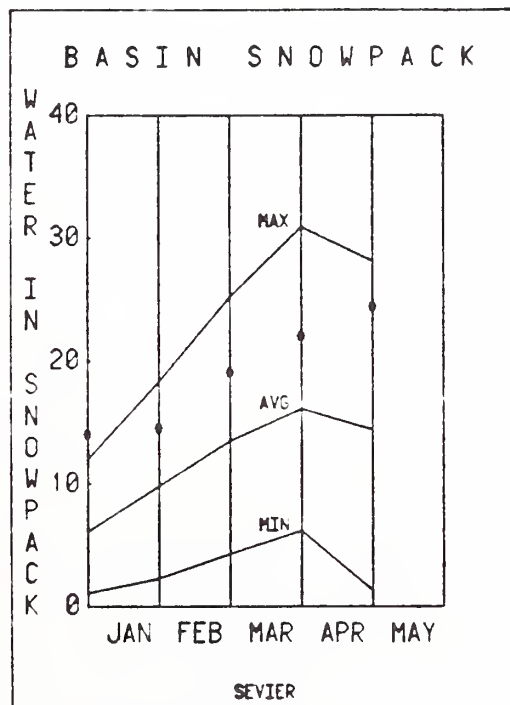
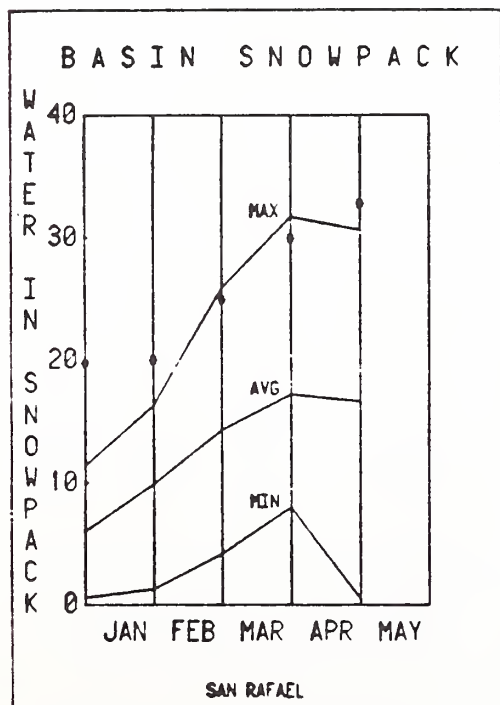
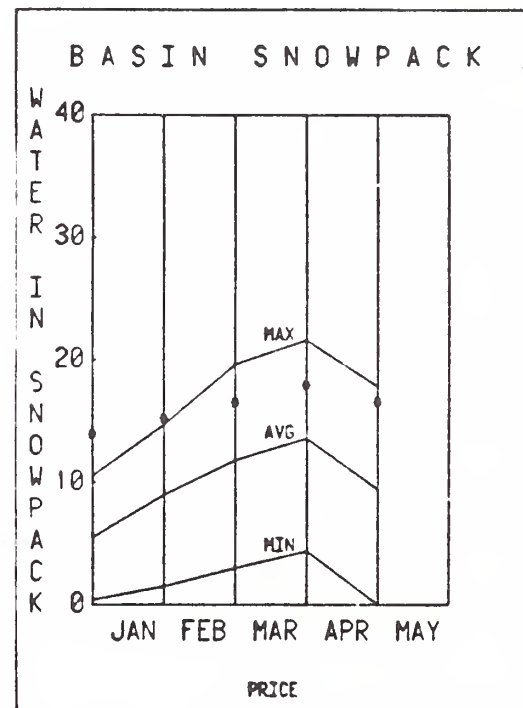
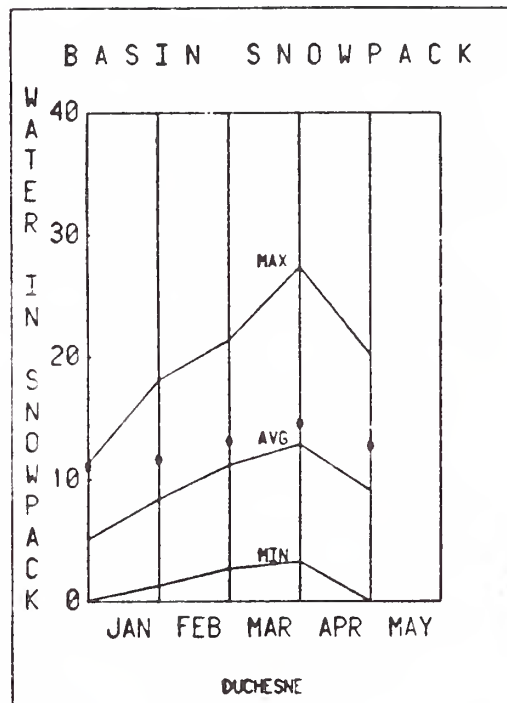
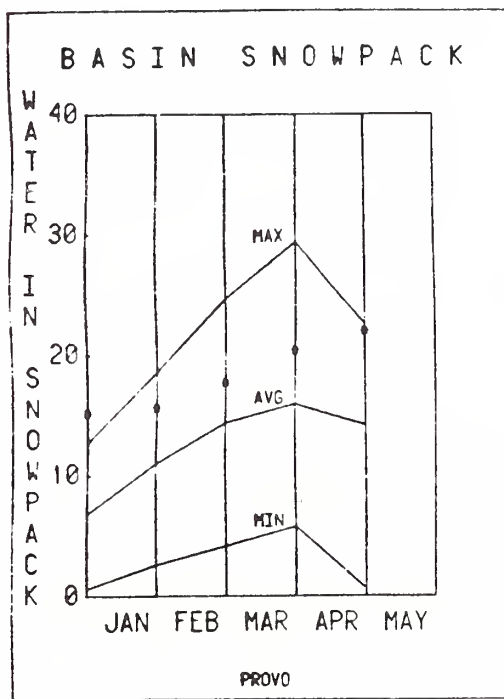
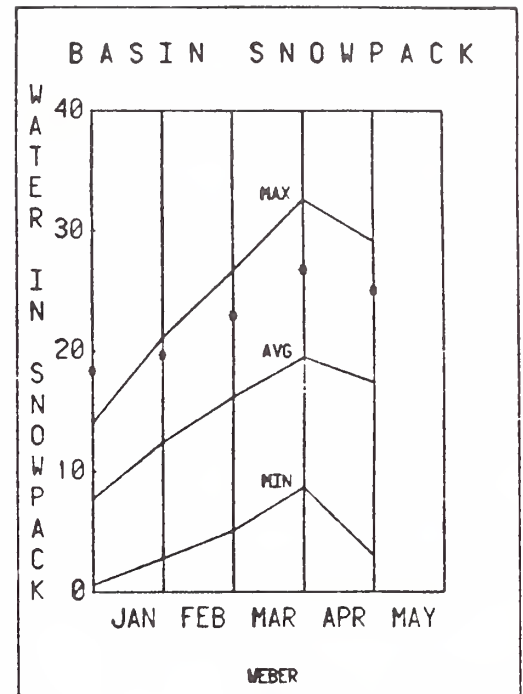
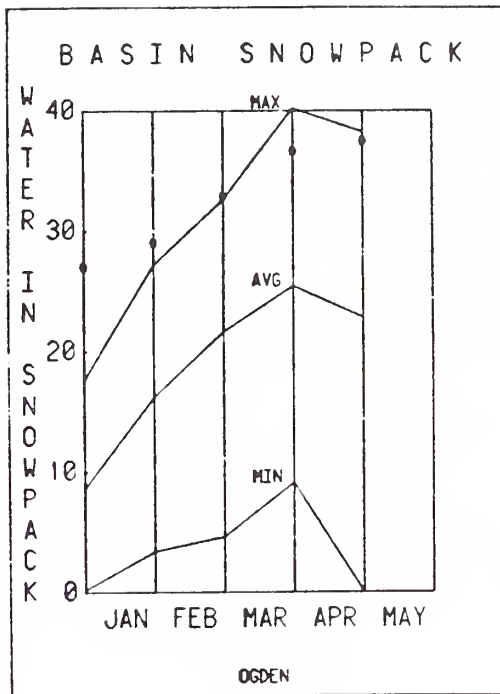
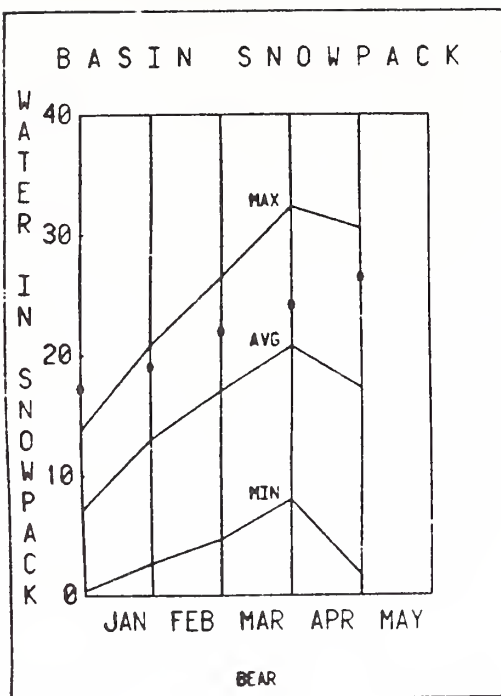
b - Average of past record in average period - less than 20 years

+ - 1961-80 20 year average period

# BASIN SNOWPACK



UTAH STATE WIDE



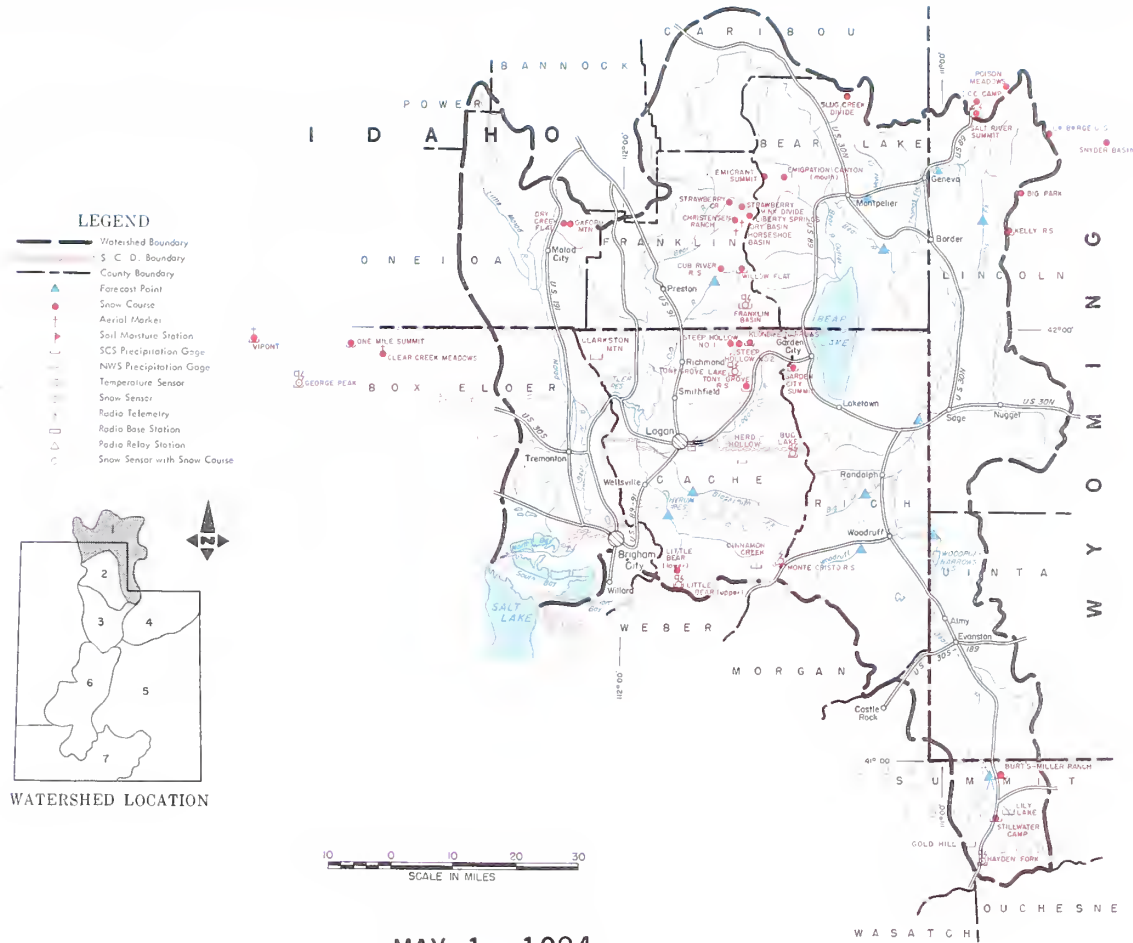




# WATER SUPPLY OUTLOOK

## BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



### THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER ranges from 119% of the May 1 average on the Upper Bear to 150% on the Lower Bear. Logan River is 135% of average.

PRECIPITATION at mountain stations ranged from 57% of the April average at Hayden Fork to 106% at Garden City Summit.

SOIL MOISTURE is well above average and wetter than last year.

RESERVOIR STORAGE has been reduced to make room for runoff. All reservoirs are expected to fill as runoff progresses.

STREAMFLOW FORECASTS range from 102% for Smith's Fork to 196% for Big Creek for the May-July period. The Bear is forecast 144% at State Line, 190% at Woodruff, 211% at Randolph and 151% at Harer. Woodruff Creek is forecast 139% of average. Logan River is forecast 121%, Blacksmith Fork 153%, Little Bear 148% and Cub River 147% of the April-July average.

Peak flows are expected to range from about 15 to 20% above average on the Logan to about twice average on Big Creek. Precautions should be taken to protect property along stream channels.

# BEAR RIVER BASIN IN UTAH

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PERIOD	PAST RECORD	
	FORECAST *			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year ‡	Average †
BEAR RIVER					
Bear nr UT-Wyo. State Line	151	144	May-July	159	105
Bear nr Woodruff 1/	220	190	May-July	236	116
Woodruff Crk nr Woodruff, UT	21	139	May-July	28	15.1 <sup>b</sup>
Big Creek nr Randolph, UT	8.6	196	May-July	--	4.4 <sup>a</sup>
Bear nr Randolph 1/	170	211	May-July	262	82
Thomas Fork nr ID-WY State Ln	40	115	Apr-Sept	--	35
Smith's Fork nr Border, WY	121	102	Apr-Sept	--	119
Bear at Harer, Idaho 1/	468	151	Apr-Sept	688	310
Logan nr Logan 1/	122	121	May-July	153	101
Blacksmith Fork nr Hyrum	58	153	May-July	74	38
Little Bear nr Paradise	38	148	May-June	72	26
Cub River nr Preston, ID	63	147	May-July	--	43

## SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Gauges Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
BEAR RIVER	19	119	142
UPPER BEAR RIVER	6	104	119
LOWER BEAR RIVER	13	124	150
LOGAN RIVER	7	114	135

1 - Observed flow corrected for change in storage and diversions  
 2 - Inflow record as computed by U. S. Bureau of Reclamation  
 3 - Provisional flows - Subject to Correction  
 a - Partly estimated  
 b - Average of all past record - less than 20 years  
 e - Maximum mean daily peak flow  
 + - 1961-80 20 year Average Period  
 \* - Forecast in cooperation with National Weather Service

## RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
BEAR RIVER	Bear Lake	1421.0	1111.2	1106.4	1054.1
	Woodruff Narrows	55.8	35.0 <sup>a</sup>	55.8	--
	Woodruff Creek	3.5	3.5	3.5	--
LITTLE BEAR	Hyrum	15.3	10.9	10.8	13.2
	Porcupine	11.3	8.1	11.9	9.5 <sup>b</sup>

## PEAK FLOWS<sup>e</sup>

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Bear nr. Ut.-Wyo. Stateline	2040-2420	1506
Woodruff Creek nr Woodruff	300-440	253
Big Creek nr Randolph	80-120	48 <sup>b</sup>
Logan River nr Logan	960-1260	980
Little Bear nr Paradise	560-880	519

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
NAME					
Burts-Miller Ranch	4/28	12	4.2	4.2	2.4
Cub River R.S.	4/27	14	5.1	0.0	0.1
Emigrant Summit	4/30	81	33.4	30.2	23.6
Franklin Basin	4/27	79	33.6	30.2	20.7 <sup>a</sup>
Garden City Summit	4/27	57	20.8	18.5	17.4
Hayden Fork	4/28	46	18.2	18.2	16.2
Klondike Narrows	4/27	50	23.0	20.2	15.6

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
NAME					
Little Bear Lower	4/24	18	7.9	3.3	1.5
Little Bear Upper	4/24	32	14.5	8.5	5.4
Monte Cristo	4/24	69	29.8	27.8	26.8
Salt River Summit	4/26	46	15.8	15.2	14.5
Stillwater Camp	4/28	30	10.6	11.0	8.4
Tony Grove R.S.	4/27	27	11.3	6.9	3.1

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
Federal Bldg. - Room 4012  
Salt Lake City, Utah 841138

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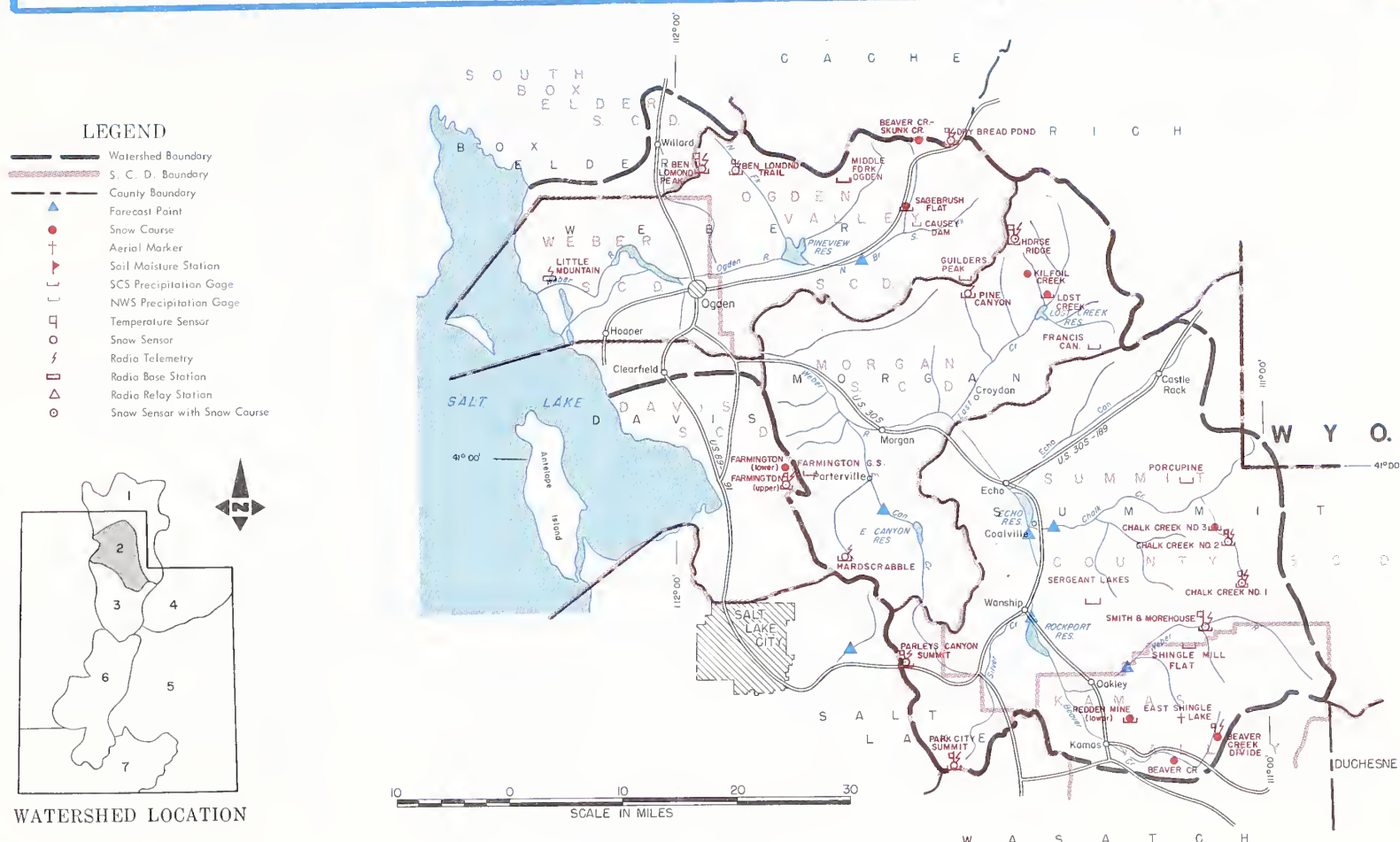
FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

# WATER SUPPLY OUTLOOK

## WEBER-OGDEN WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE TO WELL ABOVE AVERAGE

SNOW COVER is now 148% of the May 1 average on Ogden Basin and 144% on Weber Basin. Last year at this time it was 142% and 114% respectively.

PRECIPITATION at mountain stations ranged from 39% of the April average at Sagebrush Flat to 94% at Parleys Summit.

SOIL MOISTURE is above average and wetter than last year.

RESERVOIR STORAGE was drawn down to make room for peak run-off and is now 54% of capacity, 71% of the May 1 average, and 25% less than last year at this time.

STREAMFLOW FORECASTS have increased 5 to 28% and now range from 129% of the May-June average at Oakley to 226% for East Canyon. All forecasts are for less volume than occurred last year in the May-June period. The South Fork Ogden is forecast 159% and Pineview Inflow 174%.

Weber River is forecast 133% at Rockport Reservoir, 137% at Coalville, 152% for Echo Inflow and 167% at Gateway. Chalk Creek is forecast 183%, Lost Creek 214%, East Canyon 226% and Hardscrabble 155% of the May-June average.

Again this year the late melt is expected to cause higher than average peak flows and property along stream channels should be protected as much as possible.



WEBER-OGDEN WATERSHEDS IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST *		PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year †	Average †
WEBER-OGDEN RIVERS					
Weber nr Oakley	120	129	May-June	138	93
Rockport Reservoir Inflow 1/	128	133	May-June	154	96
Chalk Creek at Coalville	53	183	May-June	58	29
Weber nr Coalville 1/	134	137	May-June	167	98
Lost Creek nr Croydon, UT 1/	24	214	May-June	34	11.2 <sup>a</sup>
East Canyon Creek nr Morgan 1/	37	226	May-June	43	16.3
Hardscrabble Crk nr Porterville	22	155	May-June	--	14.1 <sup>a</sup>
S. Fork Ogden nr Huntsville 1/	65	159	May-June	81	41 <sup>a</sup>
Pineview Reservoir Inflow 1/	129	174	May-June	161	74 <sup>a</sup>
Echo Reservoir Inflow 2/	182	152	May-June	190	120
Weber at Gateway 1/	374	167	May-June	474	224
JORDAN RIVER & SALT LAKE					
Farmington Crk nr Farmington	11.4	170	May-July	--	6.7 <sup>b</sup>

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Gauges Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average †
OGDEN RIVER	5	130	148
WEBER RIVER	12	105	144
1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 20 years e - Maximum mean daily peak flow + - 1961-80 20 year Average Period * - Forecast in cooperation with National Weather Service			

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
OGDEN	Causey	6.9	0.7	1.8	2.6 <sup>b</sup>
	Pineview	110.1	53.8	83.3	76.6
WEBER	East Canyon	48.1	27.8	39.6	41.5 <sup>b</sup>
	Echo	73.9	31.1	40.2	54.2
	Lost Creek	20.0	7.8	15.2	14.3 <sup>b</sup>
	Rockport	60.9	25.7	32.4	36.8
	Willard Bay	193.3	133.3	161.1	168.0 <sup>b</sup>

PEAK FLOWS<sup>e</sup>

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
South Fork Ogden nr Huntsville	940-1300	763
Chalk Creek nr Coalville	750-1090	510
Weber nr Oakley	1710-2170	1540

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Beaver Creek R.S.	4/27	13	5.2	3.8	1.7
Beaver Creek-Skunk Creek	4/24	26	11.5	10.1	6.1
Ben Lomond Peak	4/24	150	70.7	52.1	38.2
Ben Lomond Trail	4/24	49	24.5	17.3	8.1 <sup>a</sup>
Chalk Creek #1	4/27	73	29.0	29.0	24.4
Chalk Creek #2	4/27	47	17.9	17.2	14.2
Chalk Creek #3	4/27	17	6.3	6.4	2.9
Dry Bread Pond	4/24	52	25.1	20.4	18.2

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Horse Ridge	4/24	58	26.7	23.1	20.7 <sup>b</sup>
Lost Creek Reservoir	4/24	0	0.0	0.0	0.0 <sup>b</sup>
Monte Cristo	4/24	69	29.8	27.8	26.8
Parleys Canyon Summit	4/26	65	26.6	23.2	13.8
Sagebrush Flat	4/24	0	0.0	0.8	0.0
Smith & Morehouse	4/27	37	14.1	13.5	9.1
Trial Lake	4/28		31.7 <sup>a</sup>	31.4	26.1

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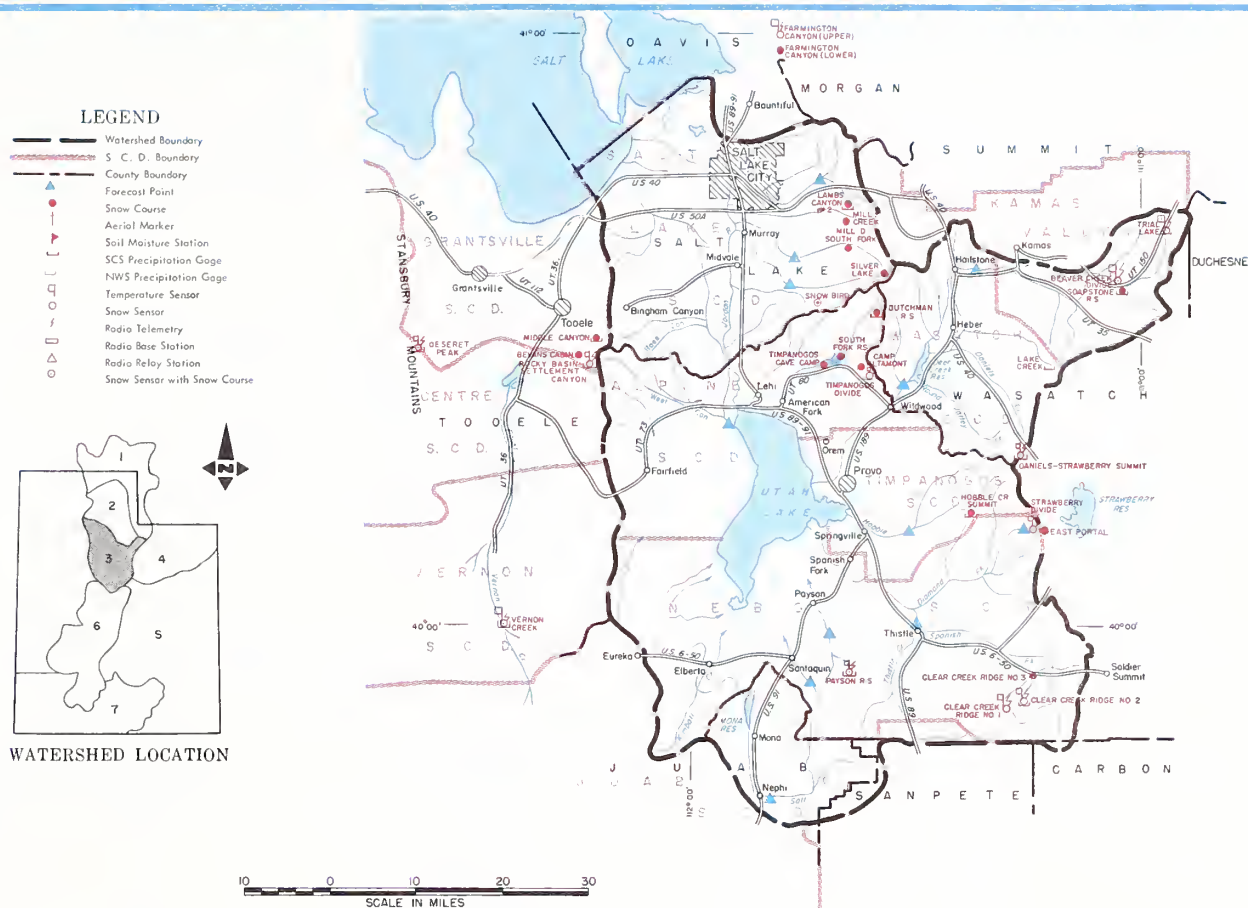
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# WATER SUPPLY OUTLOOK

## UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MAY 1, 1984

### THE WATER SUPPLY OUTLOOK IS WELL ABOVE AVERAGE

**SNOW COVER** ranges from 127% of the May 1 average on Provo River to 207% in Tooele Valley-Vernon Creek area. Utah Lake drainages are now 152% and Jordan River-Salt Lake Front 176% of the May 1 average.

**PRECIPITATION** at mountain locations ranged from 81% of the April average at Timpanogos Divide to 172% at Middle Canyon above Tooele.

**SOIL MOISTURE** is above average and wetter than last year on mountain watersheds.

**RESERVOIR STORAGE** is above average with Utah Lake 3.89 feet above compromise and Great Salt Lake 4,208.1 feet above mean sea level. Strawberry is full and has been since last May.

**STREAMFLOW FORECASTS** range from 130% of the May-July period for Strawberry Inflow to 306% for Vernon Creek. Provo River is forecast 160% at Hailstone and 180% below Deer Creek Dam. American Fork is forecast 168%, Hobbie Creek 263%, Spanish Fork 273%, Payson Creek 250% and Utah Lake Inflow 268% of the May-July average.

Little Cottonwood is forecast 147%, Big Cottonwood 164%, Mill 235%, Parley's 250%, Emigration 280%, and City Creek 201%. Settlement Creek is forecast 254%, South Willow 147%, and Vernon Creek 306% of the May-July average.

Peak flows are predicted to be 1 1/2 to 3 times average and again this year property along stream channels should be protected as much as possible.

# UTAH LAKE, JORDAN RIVER AND TOOELE VALLEY WATERSHEDS IN UTAH

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
PROVO RIVER AND UTAH LAKE					
Provo nr Hailstone 1/	150	160	May-July	151	94
Provo below Deer Creek Dam1/	175	180	May-July	--	96
American Fork nr American Fk.	47	168	May-July	--	28
Hobble Creek nr Springville	35	263	May-July	--	13.3
Strawberry Reservoir Inflow1/	56	130	May-July	141	43
Spanish Fork at Thistle	85	273	May-July	--	28
Payson Creek nr Payson	11.0	250	May-July	--	4.4
Utah Lake Inflow	445	268	May-July	610	166
JORDON RIVER & SALT LAKE					
Little Cottonwood Crk nr SLC	53	147	May-July	61	36
Big Cottonwood nr SLC	54	164	May-July	57	33
Parley's Creek nr SLC	28	250	May-July	35	11.3
Mill Creek nr SLC	12.0	235	May-July	12.1	5.0
Emigration Creek nr SLC	7.0	280	May-July	10.4	2.5
City Creek nr SLC	13.5	201	May-July	19.7	6.6
TOOELE VALLEY					
Settlement Crk nr Tooele	5.3	254	May-July	--	2.1 <sup>b</sup>
S. Willow Crk nr Grantsville	4.0	147	May-July	3.9	2.7 <sup>b</sup>
Vernon Creek nr Vernon	1.6	306	May-June	3.5	0.5 <sup>b</sup>

## SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
PROVO RIVER & UTAH LAKE	8	98	152
JORDON RIVER & SALT LAKE	8	102	176
TOOELE VALLEY & VERNON CREEK	4	104	207
1 - Observed flow corrected for change in storage and diversions 3 - Provisional flows - subject to correction a - Partly estimated b - Average of past record - less than 20 years + - 1961-80 20 year average period e - Maximum mean daily peak flow * - Forecast in cooperation with National Weather Service			

## RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average
SPANISH FORK	Strawberry	270.0	270.0	263.4	156.0
UTAH LAKE	Utah Lake	883.9	1287.9	1164.5	766.8
	Settlement Creek	1.2	0.8	1.0	0.9 <sup>b</sup>
	Vernon Creek	0.6	0.6	0.6	0.6 <sup>b</sup>
PROVO	Deer Creek	149.7	121.2	112.4	106.9

## PEAK FLOWS<sup>e</sup>

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average
Big Cottonwood nr Salt Lake City	600-700	442
Little Cottonwood nr Salt Lake City	650-750	384
Provo Near Hailstone	2400-2800	2128
Spanish Fork nr Thistle	1400-1600	451 <sup>b</sup>
American Fork nr American Fork	600-700	329
Mill Creek nr Salt Lake City	110-130	59
Parley's Creek nr Salt Lake City	350-400	153
City Creek nr Salt Lake City	125-150	75
Emigration	150-175	--

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average
Bevans Cabin	4/30	68	26.9	--	4.8
Clear Creek #1	4/28	64	27.1	24.1	17.7
Clear Creek #2	4/28	46	18.6	15.9	10.5
Clear Creek #3	4/28	2	0.9	0.0	0.1
Daniels-Strawberry Summit	4/28	39	16.5	19.1	9.6
Deseret Peak	4/30	106	43.3	--	27.0 <sup>a</sup>
Hobble Creek Summit	4/28	40	18.3	18.2	7.9
Lambs Canyon #2	4/26	55	21.9	20.4	9.8 <sup>a</sup>
Middle Canyon	4/30	75	29.7	23.0	9.3
Mill Creek	4/25	73	28.1	27.4	21.1 <sup>a</sup>

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average
Mill D South Fork	4/27	61	25.5	26.0	15.1
Parley's Canyon Summit	4/26	65	26.6	23.3	13.8
Payson R.S.	4/24	68	31.4	30.4	15.5
Rocky Basin-Settlement Canyon	4/30	138	55.8	52.2	30.0
Silver Lake Brighton	4/27	78	32.9	36.2	28.3
Soapstone R.S.	4/27	31	12.9	10.0	7.1
South Fork R.S.	NOT SCHEDULED				
Timpanogos Divide	4/28	58 <sup>a</sup>	22.1 <sup>a</sup>	35.9	22.6
Trial Lake	4/28	67	31.7 <sup>a</sup>	31.4	26.1
Vernon Creek	4/29	44 <sup>a</sup>	17.6 <sup>a</sup>	21.5 <sup>a</sup>	4.3 <sup>a</sup>

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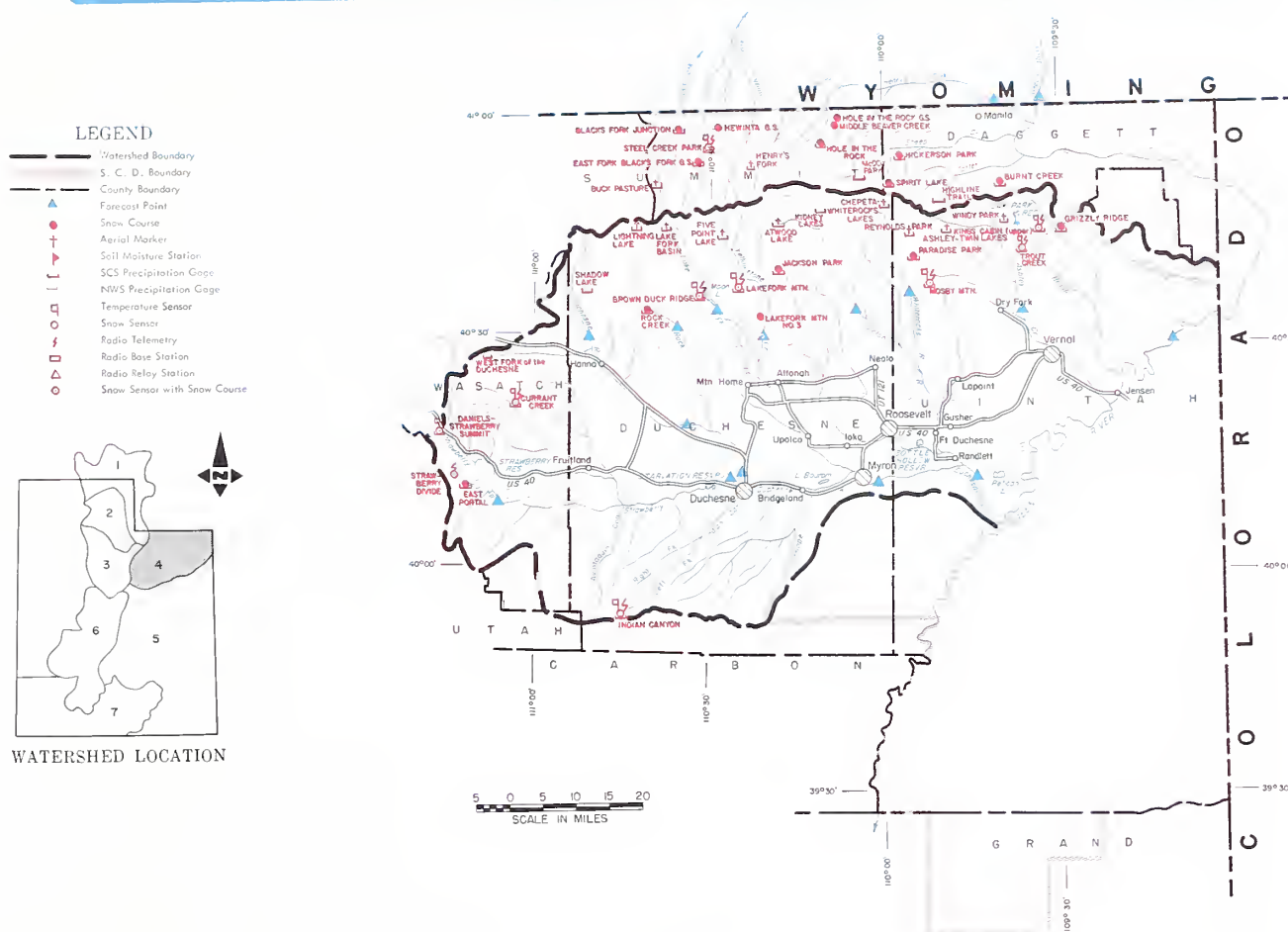
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# WATER SUPPLY OUTLOOK

## UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



May 1, 1984

### THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

**SNOW COVER** ranges from 94% of the May 1 average for Uintah-Whiterocks drainages to 163% for Strawberry River. Ashley Creek is 124%, Lakefork-Yellowstone 111%, Black's Fork 130% and Sheep Creek 151% of the May 1 average for the 1961-80 period.

**PRECIPITATION** at mountain stations ranged from 59% of the April average at Daniels Summit to 127% at Grizzly Ridge on the east end of the Uintah Mountains.

**SOIL MOISTURE** is above average.

**RESERVOIR STORAGE** is above average.

**STREAMFLOW FORECASTS** for the May-July period now range from 107% of average for Yellowstone to 188% for the Duchesne at Myton.

The Duchesne River is forecast 121% at Tabiona, 120% at Duchesne and 185% at Randlette. The West Fork is forecast 123%. Strawberry River is forecast 167% at Duchesne, Currant Creek 155%, Rock Creek 114%, Lakefork 116%, Uintah 123% and Whiterocks 129% of average. Henry's Fork is forecast 144% and Black's Fork 137% of average.

If normal temperatures and precipitation occur this melt season, peak flows should not cause many problems. Property should be protected along the lower Strawberry and lower Duchesne Rivers where peaks are expected to be 1 1/2 to 2 times average this season.

All water users in this area are expected to have adequate water supplies this season.



# UINTAH BASIN AND DAGGETT SCD's IN UTAH

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
DUCHESNE RIVER					
Duchesne nr Tabiona 1/	116	121	May-July	132	96
Duchesne at Duchesne 1/	210	120	May-July	278	175
Strawberry at Duchesne	80	167	May-July	162	48
Rock Creek nr Mtn. Home	100	114	May-July	--	88
Currant Creek nr Fruitland	26	155	May-July	49	16.6
Lakefork below Moon Lake 1/	78	116	May-July	--	67
Yellowstone nr Altonah	65	107	May-July	--	61
Duchesne at Myton 1/	350	188	May-July	--	186
Whiterocks nr Whitetock	72	129	May-July	95	56
Uintah nr Neola	100	123	May-July	--	81
Duchesne at Randlett 1/	427	185	May-July	--	231
West Fork Duchesne at Hanna	30	123	May-July	--	24
FLAMING GORGE TO DUCHESNE RIVER					
Henry's Fork nr Manila	62	144	May-Sept	152	43
Black's Fork nr Millburne	119	137	May-July	144	87
Flaming Gorge Inflow 1/	1245	115	May-July	1936	1080
Ashley Creek nr Vernal	56	114	May-July	--	49

## SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
DUCHESNE RIVER - TOTAL	12	68	122
LAKEFORK-YELLOWSTONE CREEKS	3	71	111
STRAWBERRY RIVER	5	75	163
UINTAH - WHITEROCKS RIVERS	3	61	94
ASHLEY CREEK	3	82	124
BLACK'S FORK	4	98	130
SHEEP CREEK	3	88	151
1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 20 years e - Maximum mean daily peak flow + - 1961-80 20 year Average Period * - Forecast in cooperation with National Weather Service			

## RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
ASHLEY CREEK	Red Fleet	26.0	18.0	20.7	--
	Steinaker	33.3	25.7	27.2	23.0 <sup>b</sup>
GREEN RIVER	Flaming Gorge	3749.0	3067.4	3248.6	--
LAKE FORK	Moon Lake	35.8	30.0	33.2	18.1
STRAWBERRY	Currant Creek	14.3	4.9	--	--
	Starvation	165.3	128.2	117.5	113.5 <sup>b</sup>
	Soldier Creek	951.4	68.5	41.4	--
UINTAH	Bottle Hollow	11.3	11.3	11.0	10.6 <sup>b</sup>

## PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Strawberry at Duchesne	920-1330	675
Ashley Creek nr Vernal	850-1350	966
Rock Creek nr. Mtn. Home	1440-1760	1415

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Brown Duck Ridge	4/28	74	24.6	30.8	20.6 <sup>a</sup>
Burnt Creek	4/30	22	5.4	6.5 <sup>a</sup>	2.6 <sup>a</sup>
Currant Creek	4/28	12	4.5	10.6	2.5 <sup>b</sup>
Daniels-Strawberry	4/28	39	16.5	19.1	9.6
Grizzly Ridge	4/30	38	11.8	19.2	9.3 <sup>a</sup>
Hewinta G. S.	4/28	43	13.6	13.6	10.1
Hickerson Park	4/28	44	13.3	12.1	6.1 <sup>b</sup>
Jackson Park	4/28	46	14.8	23.4	15.9 <sup>a</sup>
Kings Cabin Upper	4/28	36	12.2	13.5	10.2

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Lakefork Mountain #1	4/28	38	12.6	15.9	12.1
Mosby Mountain	4/28	35	9.9	15.1	10.5
Paradise Park	4/28	47	14.3	24.6	14.8
Rock Creek Ranch	4/28	0	0.0	6.6	1.3 <sup>b</sup>
Spirit Lake	4/28	58	18.2	23.3	15.6 <sup>b</sup>
Steel Creek Park	4/28	69	22.5	24.3	18.5 <sup>b</sup>
Strawberry Divide	4/30	63	23.9	23.9	12.8 <sup>a</sup>
Trout Creek	4/28	38	12.1	15.9	9.5 <sup>a</sup>

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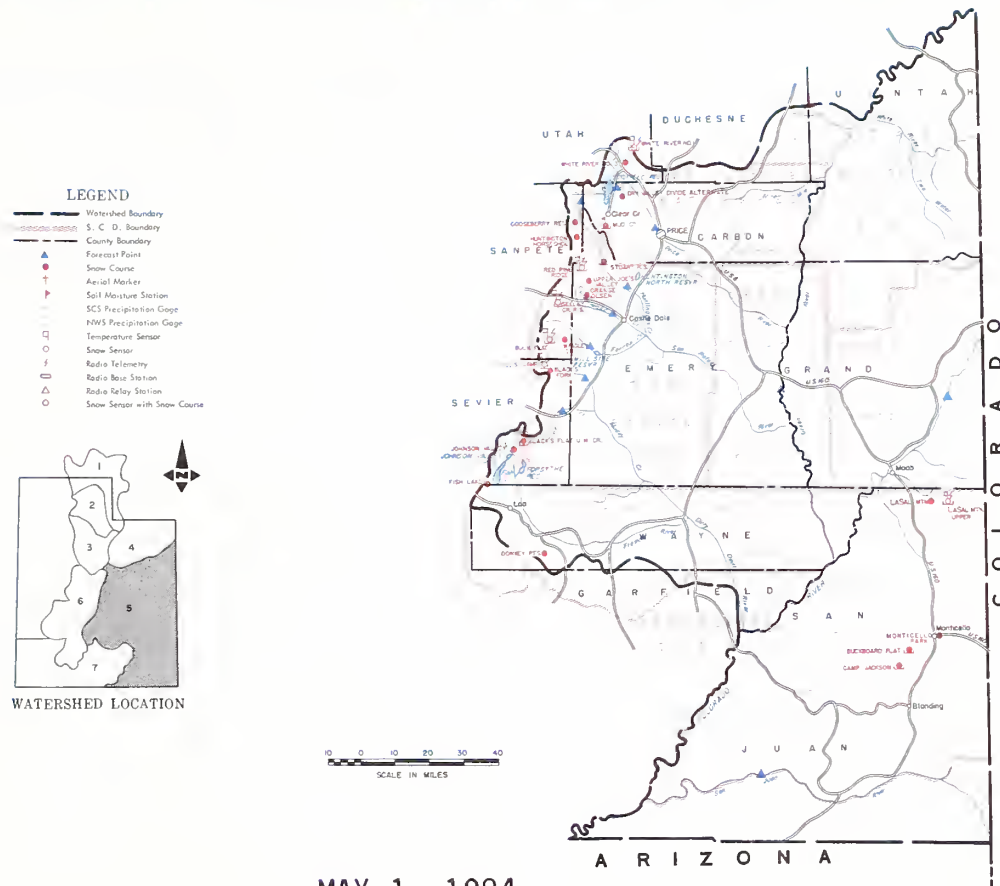
"The Conservation of Water begins with the Snow Survey"



# WATER SUPPLY OUTLOOK

## CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



THE WATER SUPPLY OUTLOOK IS WELL ABOVE AVERAGE

SNOW COVER ranges from 96% of the May 1 average on Blue Mountains above Monticello to 300% on the Fremont River. The Price River is 174%, San Rafael 184%, Muddy 163% and LaSal Mountains 178% of average.

PRECIPITATION at mountain stations ranged from 116% of the April average at Buck Flat to 185% at LaSal Mountain Upper.

SOIL MOISTURE is above average except in the southeast corner of the state.

RESERVOIR STORAGE has been drawn down to make space for runoff in Joe's Valley and Scofield. Mill Site is above average, Ken's Lake is about half full and all reservoirs should fill as runoff progresses.

STREAMFLOW FORECASTS generally increased 6 to 49% for the May-July period and now range from 120% for Navajo Inflow to 229% for Scofield Inflow. Price River is forecast 223% at Heiner, Huntington Creek 213%, Cottonwood Creek 223%, Ferron Creek 218% and Muddy Creek 200% of average. Seven Mile Creek near Fish Lake is forecast 208% of the May-July average and Fremont River is expected to produce better than twice average flows this season. The Colorado River at Cisco is forecast 220%, Green River 152%, Mill Creek near Moab 170% and San Juan near Bluff 137% of the May-July average.

Peak flows are expected to be twice average on Price, San Rafael, Muddy and Colorado Rivers and again this year property along stream channels should be protected as much as possible.

## CARBON, EMERY, WAYNE, GRAND AND SAN JUAN COUNTIES IN UTAH

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
PRICE RIVER					
Gooseberry Crk nr Scofield	22	220	May-July	--	10.0
Scofield Reservoir Inflow	76	229	May-July	166	33
Price nr Heiner 1/	125	223	May-July	--	56
SAN RAFAEL RIVER					
Huntington Crk nr Huntington	94	213	May-July	--	43 <sup>b</sup>
Cottonwood Crk nr Orangeville	96	223	May-July	151	43 <sup>b</sup>
Ferron Creek nr Ferron	74	218	May-July	73	34
MUDDY CREEK					
Muddy Creek nr Emery	34	200	May-July	43	16.8
UPPER COLORADO BASIN					
Colorado nr Cisco, UT	5805	220	May-July	6368	2638
Green at Green River, UT	3945	152	May-July	5134	2594
Mill Creek nr Moab	8.0	170	May-July	11.9	4.7 <sup>b</sup>
Navajo Reservoir Inflow	695	120	May-July	--	540
San Juan nr Bluff, UT	1088	137	May-July	953	793
FREMONT RIVER					
Seven Mile Crk nr Fish Lake	12.1	208	May-July	23	5.8 <sup>b</sup>

## RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
PRICE RIVER	Scofield	65.8	28.0	37.6	36.6
SAN RAFAEL	Huntington North	3.9	3.6	3.6	3.9 <sup>b</sup>
	Joe's Valley	54.6	25.5	33.9	46.8 <sup>b</sup>
	Mill Site	16.7	14.6	15.5	6.3 <sup>b</sup>
SAN JUAN	Navajo	1696.0	1370.0	1316.8	--
	Kens Lake	2.3	1.2	1.6	--

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Buck Flat	4/25	70	30.2	29.6	16.6
Buckboard Flat	4/27	28	9.1	19.2	8.4
Camp Jackson	4/27	18	6.0	20.8	7.3
Dills Camp	4/24	45	16.5	19.4	10.9
Dry Valley Divide Alternate	4/28	32	12.3	14.0	--
Huntington-Horseshoe	4/25	91	40.6	45.0	26.5 <sup>a</sup>
Indian Canyon	4/28	34	11.7	19.7	--
LaSal Mtn. Upper	4/26	72	21.2	29.2	14.2
Mammoth-Cottonwood R.S.	4/25	73	32.6	35.2	11.1

## SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUBWATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
PRICE RIVER	3	90	174
SAN RAFAEL RIVER	8	97	184
FREMONT RIVER	3	122	300
LASAL MOUNTAINS	2	73	178
BLUE MOUNTAINS	2	38	96
MUDDY RIVER	2	88	163
1 - Observed flow corrected for change in storage and diversions			
2 - Inflow record as computed by U. S. Bureau of Reclamation			
3 - Provisional flows - Subject to Correction			
a - Partly estimated			
b - Average of all past record - less than 20 years			
e - Maximum mean daily peak flow			
+ - 1961-80 20 year Average Period			
* - Forecast in cooperation with National Weather Service			

## PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Ferron Creek near Ferron	860-1010	444
Muddy Creek near Emery	270-400	168
Huntington Cr. near Huntington	1100-1300	516 <sup>b</sup>

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Monticello City Park				0.0	
Mud Creek	4/25	43	17.0	17.7	8.3
Red Pine Ridge	4/25	67	29.1	27.2	15.3
Seeley Creek	4/27	94	39.2	31.0	18.0
Stuart R.S.	4/25	12	5.0	11.0	1.8
Upper Joe's Valley	4/25	34	13.3	14.9	6.2
White River #1	4/28	42	16.3	16.5	10.5
White River #3	4/28	2	0.7	3.5	0.7 <sup>b</sup>
Wrigley Creek	4/25	40	14.7	17.7	8.9

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UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



SNOW COVER ranges from 110% of average on the South Fork Sevier to 226% on the Lower Sevier. East Fork Sevier is now 161% and Beaver River 177%. Several snow courses set new May 1 water content records on the Lower Sevier-San Pitch area.

PRECIPITATION at mountain locations ranged from 72% of the April average at Mammoth-Cottonwood Creek to 305% at Kimberly Mine. A band of 2 to 3 times average precipitation occurred again in April from Beaver and Fillmore east past Salina.

SOIL MOISTURE is drier than average on the headwaters of the Sevier but wetter than average on the Beaver and Lower Sevier.

RESERVOIR STORAGE is above average in all reservoirs but Gunnison. Sevier River reservoirs are now 88% of usable capacity and 95% of last year at this time. Minersville only lacks 4,900 acre feet of being full.

STREAMFLOW FORECASTS range from 112% for the Sevier at Hatch to 921% for the Vermillion to Gunnison reach on the Lower Sevier. Other Sevier River forecasts are as follows: Circleville 144%, Kingston 159%, East Fork 200%, Clear Creek 185%, Sigurd to Gunnison 810%, Salina Creek 259%, and Sevier near Gunnison 512% of the May-July average. Ephriam Creek is forecast 337%, Pleasant Creek 306%, Salt Creek 225%, Chicken Creek 250%, Oak Creek 182% and Chalk Creek near Fillmore 616% of the May-July average.

Beaver River is forecast 257% at Beaver, North Creek 276% and Minersville Inflow 416% of average.

Peak flows on the Lower Sevier, Beaver, Chalk Creek, Chicken Creek, Salina Creek and the San Pitch tributaries are expected to be 2 to 4 times average again this season. Steps should be taken to protect property near stream channels.



## SEVIER RIVER BASIN INCLUDING BEAVER RIVER IN UTAH

## STREAMFLOW FORECASTS

STREAMFLOW FORECASTS		THIS YEAR		PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST *		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year 3	Average 4
SEVIER RIVER					
Sevier at Hatch	47	112	May-July	129	42
Sevier nr Circleville	44	144	May-July	--	30
Sevier nr Kingston	35	159	May-July	121	22
Antimony Crk nr Antimony	12.0	210	May-July	--	5.7
East Fork Sevier nr Kingston1/	25	200	May-July	--	12.5
Sevier below Piute Dam	52	158	May-July	--	33
Clear Crk nr Sevier (abv Div)	30	185	May-July	--	16.2
Sigurd to Gunnison	170	810	May-July	297	16.6
Kingston to Vermillion Dam	75	267	May-June	--	28
Vermillion Dam to Gunnison	175	921	May-June	--	19.0
Salina Creek at Salina	28.5	259	May-June	--	10.8
Sevier nr Gunnison	215	512	May-July	--	41
Chalk Creek nr Fillmore	81	616	May-July	--	13.2 <sup>b</sup>
Chicken Creek nr Levan	7.0	250	May-July	21	2.8 <sup>b</sup>
Oak Cr. nr Oak City	2.0	182	May-July	3.5	1.1 <sup>b</sup>
Ephraim Creek nr Ephraim	28	337	May-July	--	8.3
Pleasant Crk nr Mt. Pleasant	15.0	306	May-July	--	4.9
Salt Creek nr. Nephi	24	225	May-July	--	10.8
Beaver nr Beaver	54	257	May-July	70	21
North Creek (Combined)	35	276	May-July	--	12.7 <sup>a</sup>
Minersville Inflow	32	416	May-June	--	7.7

## RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average ‡
SEVIER RIVER	Gunnison	18.2	13.8	17.1	14.9 <sup>b</sup>
	Otter Creek	52.5	48.9	34.5	39.5
	Piute	71.8	58.6	71.4	44.7
	Sevier Bridge	236.0	212.1	227.6	136
	Panguitch Lake	22.3	21.7	21.8	--
BEAVER RIVER	Minersville (Rky Fd)	26.0	21.1	23.5	14.6

## SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
UPPER SEVIER RIVER			
East Fork Sevier	3	75	161
South Fork Sevier	6	44	110
LOWER SEVIER	12	118	226
BEAVER RIVER	3	86	177
1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 20 years e - Maximum mean daily peak flow + - 1961-80 20 year Average Period * - Forecast in cooperation with National Weather Service			

PEAK FLOWS<sup>e</sup>

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average ‡
Beaver River nr Beaver	560-830	257
Sevier River at Hatch	450-650	484
Sevier River nr Kingston	400-600	312
Clear Creek nr Sevier	350-450	226
Salina Creek nr Salina	800-1000	285

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average ‡
81g Flat	4/28	80	32.8	36.6	20.2
Bryce Canyon	4/26	0	0.0	6.2	
Castle Valley	4/27	31	12.5	25.3	7.7
Duck Creek	4/27	1	0.1	27.3	9.2
Farnsworth Lake	4/24	97	39.8	31.3	22.1
Gooseberry R.S.	4/24	58	25.4	16.6	9.4
Harris Flat	4/27	0	0.0	11.3	2.9
Kimberly Mine	4/28	78	33.0	28.3	16.2

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average ‡
Long Valley Junction	4/27	0	0.0	0.0	.0 <sup>b</sup>
Merchants Valley Upper	4/28	45	18.0	20.7	7.6
Midway Valley	4/27	54	19.4	47.2	23.7
Oak Creek	4/28	55	21.9	26.9	7.5 <sup>a</sup>
Otter Lake	4/28	58	22.5	28.4	13.6
Pickle Keg Springs	4/24	79	35.4	26.1	11.2
Pine Creek	4/28	103	45.3	34.8	13.9
Widtsøe-Escalante #3	4/27	24	8.2	21.4	10.1

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
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Salt Lake City, Utah 84141

FORECAST AND RECORD  
U. S. DEPARTMENT OF  
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# WATER SUPPLY OUTLOOK

## EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



THE WATER SUPPLY OUTLOOK IS NEAR ON COAL CREEK TO BELOW AVERAGE ON VIRGIN RIVER

SNOW COVER ranges from only 5% of the May 1 average in the Enterprise-New Harmony area to 145% on Parowan Creek. Coal Creek snow cover is 69% of average, Virgin River 73% and Escalante River 81% of the May 1 average. All areas are well below last year at this time.

PRECIPITATION at mountain stations ranged from 48% at Yankee Reservoir to 177% at Long Flat.

SOIL MOISTURE is near average to slightly below average.

RESERVOIR STORAGE in Enterprise Reservoirs is reported below average and beginning to draw down for irrigation. Lake Powell has been drawn down to make space for snow melt runoff and is 1,715,000 acre feet less than last year.

STREAMFLOW FORECASTS for the May-July period range from 61% of average on the Santa Clara to 178% for Lake Powell Inflow. Coal Creek is forecast 123% and Virgin River 81% of the May-June average.

Peak flows are not expected to be high in this area. Coal and Parowan Creeks may peak as high as 1 1/2 times average and other local streams are expected to peak below average this season.

## EAST GARFIELD, KANE, WASHINGTON AND IRON COUNTIES IN UTAH

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
VIRGIN RIVER					
Virgin nr Hurricane	25	81	May-June	171	38
Santa Clara nr Pine Valley	2.5	61	May-June	--	4.1
COAL CREEK					
Coal Creek nr Cedar City	19.0	123	May-July	54	15.4
UPPER COLORADO					
Lake Powell Inflow	11500.0	178	May-July	13400	6475

## SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average †
COAL CREEK	4	29	69
VIRGIN RIVER	4	34	73
PAROWAN CREEK	3	77	145
ENTERPRISE - NEW HARMONY	2	1	5
ESCALANTE RIVER	1	38	81
1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 20 years e - Maximum mean daily peak flow + - 1961-80 20 year Average Period - Forecast in cooperation with National Weather Service			

## RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
COLORADO	Lake Powell	25002.0	21067.0	22782.0	--
	Blue Mesa	829.5	220.7	434.6	--

## PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Coal Creek nr Cedar City	300-400	220
Virgin nr Hurricane	650-1000	1092

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
NAME					
Birch Crossing	4/30	14	4.6	9.2	2.1 <sup>b</sup>
Brian Head	4/27	72	29.1	34.4	22.5 <sup>b</sup>
Harris Flat	4/27	0	0.0	11.3	2.9
Kolob-Crystal	4/27	42	15.6	46.0	22.3 <sup>a</sup>
Little Grassy	4/27	0	0.0	0.0	.2 <sup>b</sup>
Long Flat	4/27	1	0.1	13.1	1.8

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
NAME					
Long Valley Junction	4/27	0	0.0	0.0	.0 <sup>b</sup>
SUSC Ranch	4/30	0	0.0	15.8	3.2
Tall Poles	4/30	45	17.5	22.0	13.6 <sup>b</sup>
Webster Flat	4/27	29	10.1	38.2	16.0
Yankee Reservoir	4/27	39	14.2	19.3	6.9

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# SNOW

SNOW		THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
NAME					Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
GREAT BASIN												
UPPER BEAR RIVER												
(Above Harer, Idaho)												
Burts-Miller Ranch	4/28	12	4.2	4.2	2.4	4/24	1.97	2.66 <sup>b</sup>	13.27	14.66 <sup>b</sup>	90	
CCC Camp	4/26	37	13.2	11.8	9.0							
Hayden Fork	4/28	46	18.2	18.2	16.2	4/28	2.33	4.08 <sup>b</sup>	26.19	24.14 <sup>b</sup>	108	
Monte Cristo R.S.	4/24	69	29.8	27.8	26.8	4/24	3.96	5.22	33.15	31.17	106	
Salt River Summit	4/26	46	15.8	15.2	14.5	4/26	2.80	2.53	21.51	19.76	108	
Stillwater Camp	4/28	30	10.6	11.0	8.4	4/28	2.21	3.40	16.33	15.76	103	
Lily Lake	4/28	47	15.9	16.6	--	4/28	2.66	--	22.63	--	--	
LOWER BEAR RIVER												
(Below Harer, Idaho)												
Bug Lake	4/27	62	24.3	18.2	18.3 <sup>a</sup>	4/27	1.47	--	25.15 <sup>a</sup>	--	--	
Christensen Ranch												
Cliff Canyon												
Cub River R.S.	4/27	14	5.1	0.0	0.1							
Oaniels Creek												
Dry Basin												
Dry Creek Flat												
Emigrant Summit	4/30	81	33.4	30.2	23.6							
Emigration Canyon	4/30	22	9.2									
Franklin Basin	4/27	79	33.6	30.2	20.7 <sup>a</sup>	4/27	3.63	--	41.31	--		
Garden City Summit	4/27	57	20.8	18.5	17.4	4/27	3.30	3.10	26.31	22.33	117	
Horseshoe Basin												
Klondike Narrows	4/27	50	23.0	20.2	15.6	4/27	2.55	3.75 <sup>b</sup>	27.55	27.60 <sup>b</sup>	99	
Liberty Spring												
Little Bear (lower)	4/24	18	7.9	3.3	1.5							
Little Bear (upper)	4/24	32	14.5	8.5	5.4	4/24	3.28	--	32.17	--		
Lower Elkhorn												
Oxford Mountain												
Slug Creek Divide												
Steep Hollow #1	4/27	110	46.4	42.4	39.9							
Steep Hollow #2	4/27	71	31.7	30.4	24.0							
Strawberry Creek	4/30	26	12.2									
Strawberry Mink Divide												
Tony Grove Lake	4/27	98	42.8	35.4	35.1 <sup>a</sup>							
Tony Grove R.S.	4/27	27	11.3	6.9	3.1	4/27	2.38	--	27.32	--		
Upper Elkhorn												
Willow Flat	4/27	46	20.4	9.6	5.2	4/27	4.33	4.62 <sup>b</sup>	34.36	27.51 <sup>b</sup>	124	
Worm Creek												
OGOEN RIVER												
Beaver Creek-Skunk Creek	4/24	26	11.5	10.1	6.1							
Ben Lomond Peak	4/24	150	70.7	52.1	38.2	4/24	7.63 <sup>a</sup>	--	70.86 <sup>a</sup>	--		
Ben Lomond Trail	4/24	49	24.5	17.3	8.1 <sup>a</sup>	4/24	2.87	5.38 <sup>b</sup>	42.59	34.12 <sup>b</sup>	124	
Causey Dam	4/24	0	0.0	--	--	4/24	1.29	2.42 <sup>b</sup>	18.43	16.64	110	
Ory Bread Pond	4/24	52	25.1	20.4	18.2	4/24	2.68 <sup>a</sup>	4.20 <sup>b</sup>	31.00	25.28 <sup>b</sup>	122	
Sagebrush Flat	4/24	0	0.0	0.8	0.0	4/24	0.97	2.48 <sup>b</sup>	16.19	16.83 <sup>b</sup>	98	
WEBER RIVER												
Beaver Creek R.S.	4/27	13	5.2	3.8	1.7							
Chalk Creek #1	4/27	73	29.0	29.0	24.4	4/27	4.94 <sup>a</sup>	--	32.71 <sup>a</sup>	--	--	
Chalk Creek #2	4/27	47	17.9	17.2	14.2	4/27	3.31	--	21.63	--	--	
Chalk Creek #3	4/27	17	6.3	6.4	2.9	4/27	3.15	3.45 <sup>b</sup>	21.90	17.39 <sup>b</sup>	125	
East Shingle Lake (A)	5/7	99	38.6	--	--							
Farmington Canyon (lower)	4/24	83	36.5	35.5	22.8	4/24	4.95	6.29 <sup>b</sup>	40.68	33.92	119	
Farmington Canyon (upper)	4/24	100	44.9	47.1	32.9	4/24	6.37 <sup>a</sup>	--	44.87 <sup>a</sup>	--	--	
Farmington G.S.	4/24	78	35.1	34.8	--	4/24	4.64	6.16 <sup>b</sup>	37.24 <sup>a</sup>	33.24 <sup>b</sup>	112	
Hardscrabble	4/29	51	24.3	24.0	--							
Horse Ridge	4/24	58	26.7	23.1	20.7 <sup>b</sup>	4/24	2.83	4.74 <sup>b</sup>	34.28	28.38	120	
Kilfoil Creek	4/24	41	16.6	13.6	10.6 <sup>b</sup>							
Lost Creek Reservoir	4/24	0	0.0	0.0	0.0 <sup>b</sup>	4/24	0.91	--	15.00	--	--	
Park City Summit												
Parley's Canyon Summit	4/26	65	26.6	23.2	13.8	4/26	4.74	5.03	33.64	27.58	121	
Pine Canyon	4/24	51	22.8	20.8	--							
Redden Mine (lower)	4/27	59	23.4	22.3	17.8 <sup>b</sup>	4/27	4.20	--	23.14	--	--	
Smith & Morehouse	4/27	37	14.1	13.5	9.1	4/27	3.15	4.26	23.97	22.01	108	
Sargent Lake (A)	5/7	46	17.9	--	--							



# SNOW

SNOW	THIS YEAR					PAST RECORD		PRECIPITATION (Inches)					
	DRAINAGE BASIN and/or SNOW COURSE NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE			
					Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average	
GREAT BASIN CONT.													
PROVO RIVER & UTAH LAKE													
Beaver Creek Divide	4/27	26	10.9	10.9	3.02 <sup>a</sup>			--		--	--		
Clear Creek Ridge #1	4/28	64	27.1	24.1	17.7	4/28	6.25	5.56 <sup>a</sup>	31.00	29.80 <sup>a</sup>	104		
Clear Creek Ridge #2	4/28	46	18.6	15.9	10.5	4/28	4.20	3.31 <sup>b</sup>	24.08 <sup>a</sup>	19.37 <sup>b</sup>	124		
Clear Creek Ridge #3	4/28	2	0.9	0.0	0.1								
Hobble Creek Summit	4/28	40	18.3	18.2	7.9	4/28	3.58	3.20	26.43 <sup>a</sup>	20.39	129		
Payson R.S.	4/24	68	31.4	30.4	15.5	4/24	4.19	3.58	30.25	21.53	140		
Soapstone R.S.	4/27	31	12.9	10.0	7.1	4/27	3.02	3.12	23.95	19.79	121		
South Fork R.S.				5.6									
Timpanogos Divide	4/28	53 <sup>a</sup>	22.1 <sup>a</sup>	35.9	22.6	4/28	3.50 <sup>a</sup>	4.30	31.04 <sup>a</sup>	29.39	105		
Trial Lake	4/28	67	31.7 <sup>a</sup>	31.4	26.1	4/28	4.03	4.89	32.28	28.39	113		
JORDAN RIVER & GREAT SALT LAKE													
Alta Central	5/2	151	63.3	--	--								
Bevan's Cabin	4/30	68	26.9	--	4.8								
Deseret Peak	4/30	106	43.3	44.2	27.0 <sup>a</sup>								
Lamb's Canyon #2	4/26	55	21.9	20.4	9.8 <sup>a</sup>	4/26	4.27	--	25.06	--	--		
Middle Canyon	4/30	75	29.7	23.0	9.3	4/30	7.38	4.28 <sup>b</sup>	36.73	20.20	181		
Mill Creek	4/25	73	28.1	27.4	21.1 <sup>a</sup>								
Mill D South Fork	4/27	61	25.5	26.0	15.1								
Rocky Basin-Settlement	4/30	138	55.8	52.2	30.0	4/30	7.72	5.36 <sup>b</sup>	28.38	29.27	96		
Silver Lake (Brighton)	4/27	78	32.9	36.2	28.3								
Snow Bird (Gad Valley)	4/27	114	44.0	--	43.2 <sup>a</sup>								
Vernon Creek	4/29	44 <sup>a</sup>	17.6 <sup>a</sup>	21.5 <sup>a</sup>	4.3 <sup>a</sup>	4/29	3.50 <sup>a</sup>	2.58 <sup>b</sup>	23.80 <sup>a</sup>	17.85	133		
COLORADO RIVER DRAINAGE													
UPPER GREEN RIVER - UTAH													
Ashley-Twin Lakes (A)	5/7	67	20.1	--	--								
Black's Fork G.S.-East Fork	4/28	39	12.7	12.3	9.7	4/28	2.43	3.35	19.19	15.29	125		
Black's Fork Junction	4/28	35	11.8	11.5	8.3	4/28	2.40	3.08	17.32	14.70	117		
Buck Pasture (A)	5/7	70	23.1	--	--								
Burnt Creek	4/30	22	5.4	6.5 <sup>a</sup>	2.6 <sup>a</sup>	4/30	3.75	3.06 <sup>b</sup>	16.95	12.07 <sup>b</sup>	140		
Grizzly Ridge	4/30	38	11.8	14.2	9.3 <sup>a</sup>	4/30	4.15	3.25 <sup>b</sup>	20.95	16.69 <sup>b</sup>	125		
Henrys Fork (A)	5/7	59	18.3	--	--								
Hewinta G.S.	4/28	43	13.6	13.6	10.1	4/28	3.15	3.59	20.15	16.15	124		
Hickerson Park	4/28	44	13.3	12.1	6.1 <sup>b</sup>	4/28	3.34	3.56 <sup>b</sup>	15.31	12.97	118		
Hole-in-the-Rock		NOT	SCHEDULED										
Hole-in-the-Rock G.S.		NOT	SCHEDULED										
King's Cabin (upper)	4/28	36	12.2	13.5	10.2	4/28	1.88	2.95	18.47	14.58	126		
Middle Beaver Creek		NOT	SCHEDULED										
Reynolds Park (A)	5/7	66	19.8	--	--								
Spirit Lake	4/28	58	18.2	23.3	15.6 <sup>b</sup>	4/28	4.00	4.94	21.85	18.55	117		
Steel Creek Park	4/28	69	22.5	24.3	18.5 <sup>b</sup>	4/28							
Trout Creek	4/28	38	12.1	15.9	9.5 <sup>a</sup>	4/28	2.79	--	16.09	--	--		
DUCHESNE RIVER													
Atwood Lake (A)	5/7	47	15.0	--	--								
Brown Duck Ridge	4/28	74	24.6	30.8	20.6 <sup>a</sup>	4/28	2.93	--	25.90	--	--		
Chepeta	4/28	51	16.2	22.6	--	4/28	3.06	--	18.83	--	--		
Chepeta-Whiterocks (A)	5/7	62	19.8	--	--								
Current Creek	4/28	12	4.5	10.6	2.5 <sup>b</sup>	4/28	1.93	2.41 <sup>b</sup>	17.77	16.20	109		
Daniels-Strawberry Summit	4/28	39	16.5	19.1	9.6	4/28	1.95	3.28	23.33	21.09	110		
East Portal	4/30	27	10.2	15.0	4.9 <sup>b</sup>	4/30	2.85	--	25.93	--	--		
Five Points Lake (A)	5/7	60	19.8	--	--								
Indian Canyon	4/28	34	11.7	19.7	11.1	4/28	2.16	2.68	17.01	15.46	110		
Jackson Park	4/28	46	14.8	23.4	15.9 <sup>a</sup>	4/28	4.07	--	22.52	--	--		
Lakefork Basin (A)	5/7	81	26.7	--	--								
Lakefork Mountain #1	4/28	38	12.6	15.9	12.1	4/28	2.22	3.08	17.22	15.70	109		
Lakefork Mountain #3	4/28	4	1.4	7.6	2.0								
Lightning Lake (A)	4/28	106 <sup>a</sup>	35.1 <sup>a</sup>	--	27.6 <sup>a</sup>	4/28	3.60 <sup>a</sup>	--	35.10 <sup>a</sup>	--	--		
Mosby Mountain	4/28	35	9.9	15.1	10.5	4/28	1.81	3.18 <sup>b</sup>	17.89	15.18	117		
Paradise Park	4/28	47	14.3	24.6	14.8	4/28	2.07	3.91	17.66	16.96	104		
Rock Creek Ranch	4/28	0	0.0	6.6	1.3 <sup>b</sup>	4/28	1.53	2.27	16.16	13.20	122		
Strawberry Divide	4/30	63	23.9	23.9	12.8 <sup>a</sup>	4/30	3.40 <sup>a</sup>	-	28.90 <sup>a</sup>	--	--		

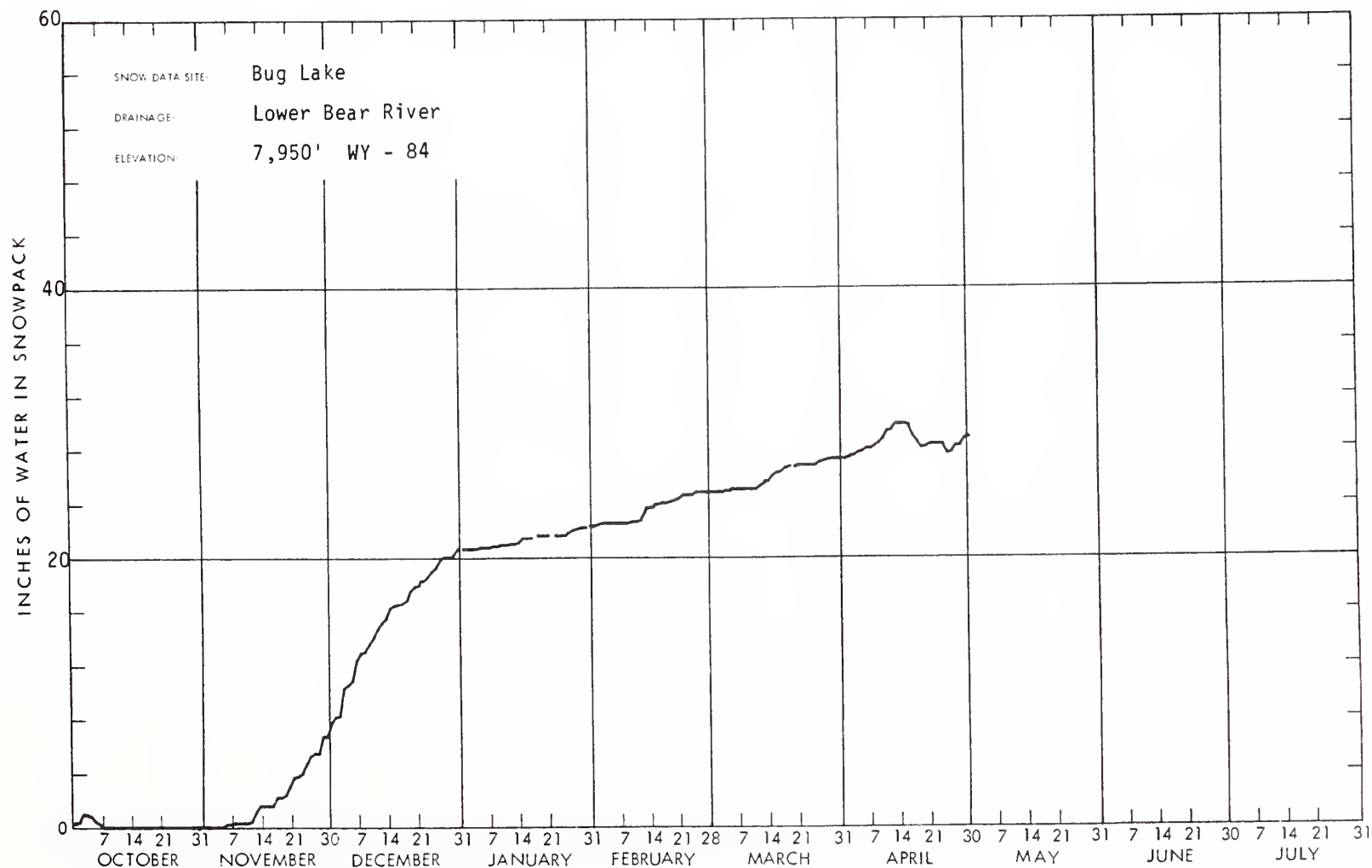
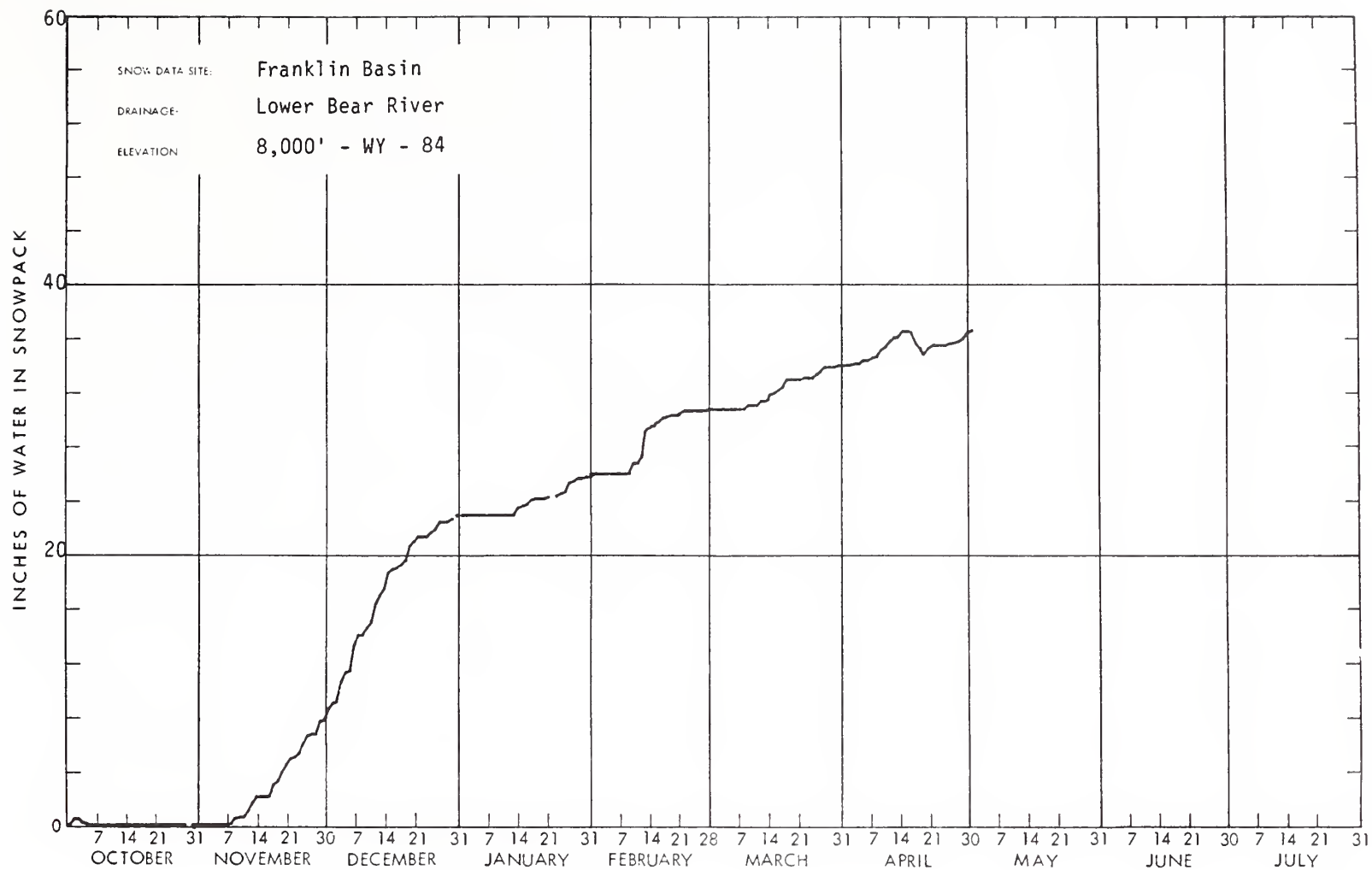


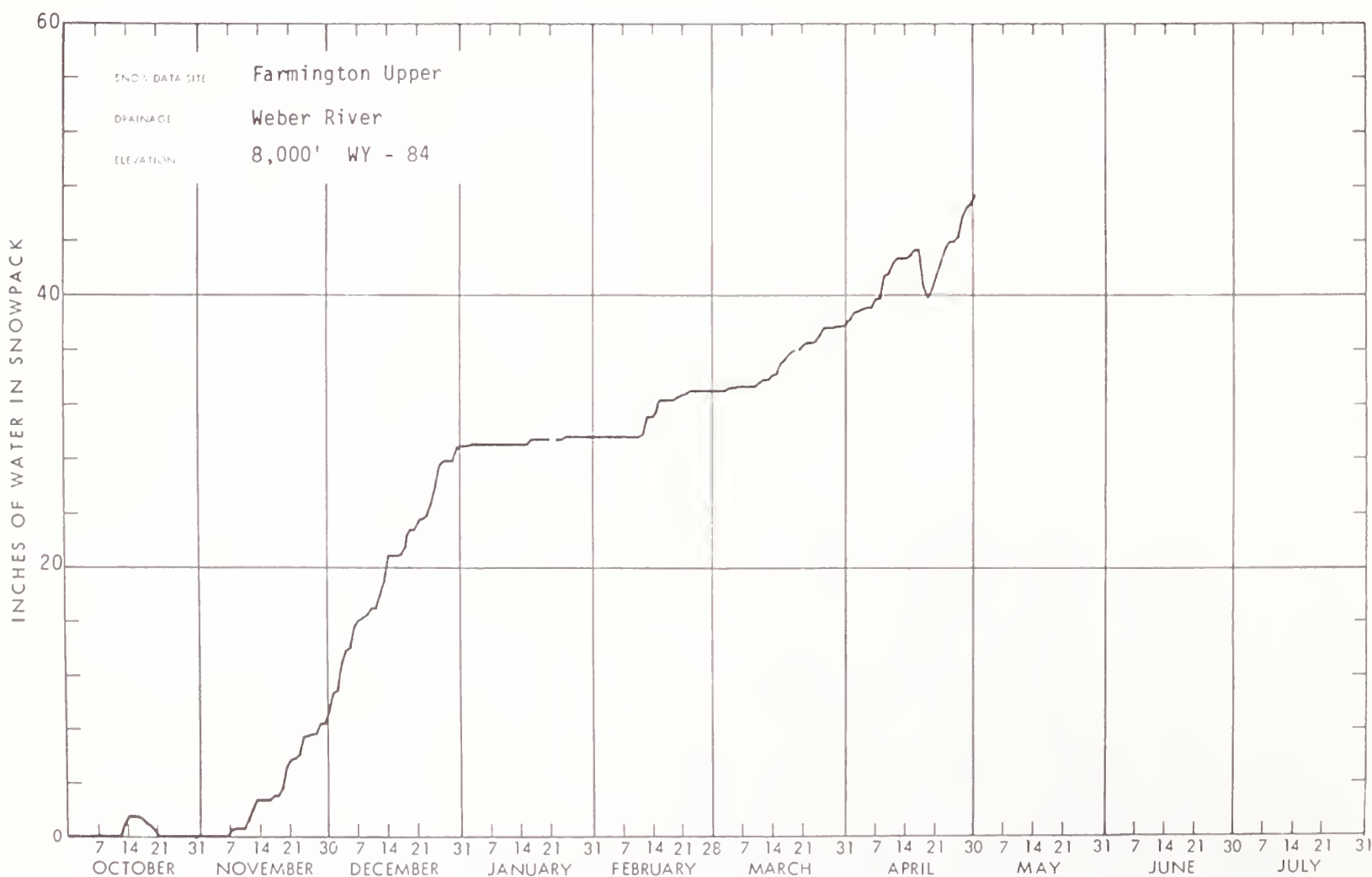
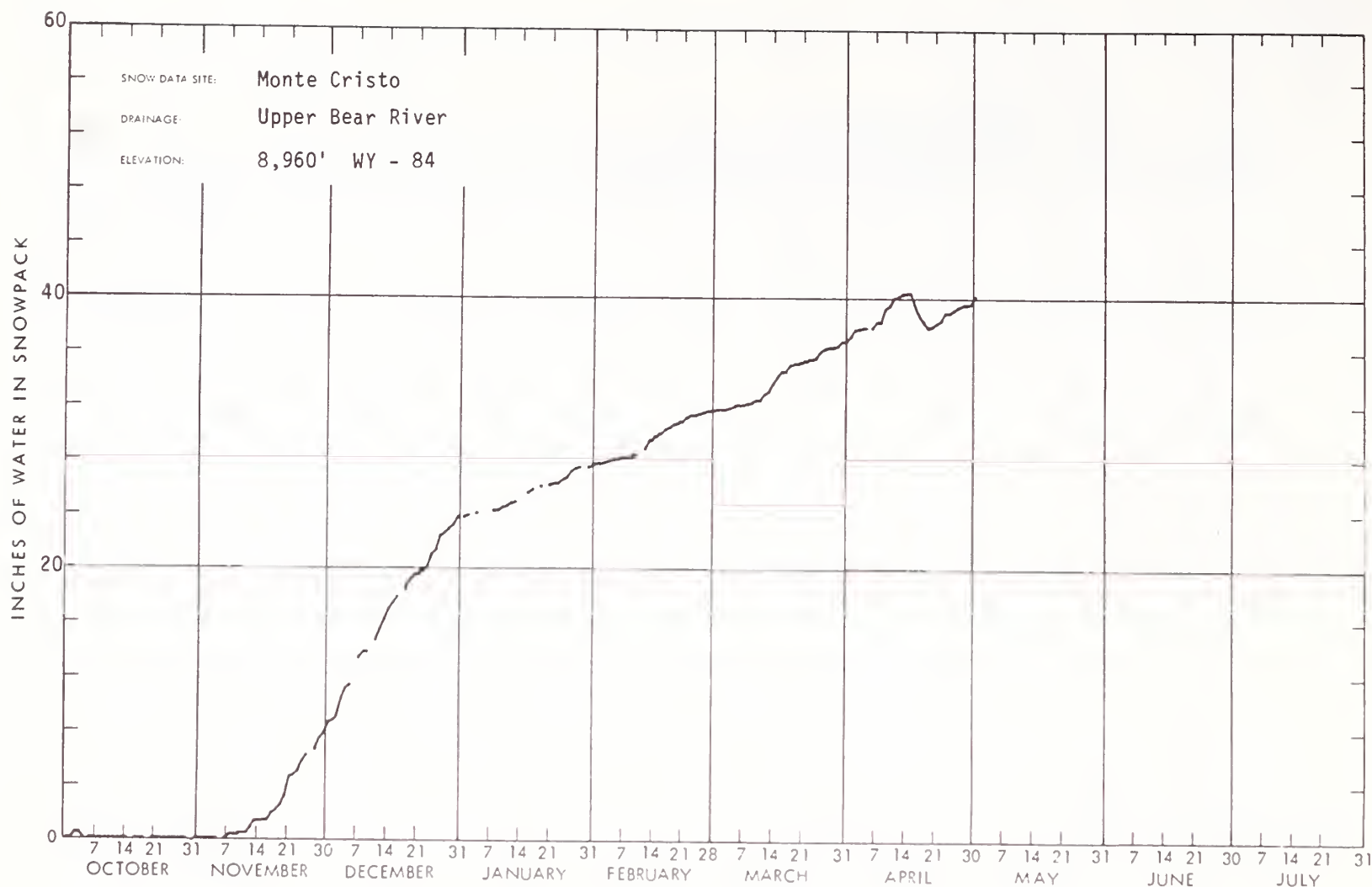
# SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
PRICE RIVER											
Dry Valley Divide Alternate	4/28	32	12.3	14.0	--						
Mud Creek	4/25	43	17.0	17.7	8.3	4/25	3.73	2.96	24.71	17.21	143
White River #1	4/28	42	16.3	16.5	10.5	4/28	2.84	2.14	22.20	16.06	138
White River #3	4/28	2	0.7	3.5	0.7 <sup>b</sup>						
SAN RAFAEL RIVER											
Buck Flat	4/25	70	30.2	29.6	16.6	4/25	3.77	3.24	30.95	20.45	151
Huntington-Horseshoe	4/25	91	40.6	45.0	26.5 <sup>a</sup>						
Orange Olsen	4/25	0	0.0	0.0	0.0 <sup>a</sup>	4/25	1.88	1.13 <sup>b</sup>	13.83	8.53	162
Red Pine Ridge	4/25	67	29.1	27.2	15.3	4/25	5.00 <sup>a</sup>	3.60	26.78	23.39	114
Seeley Creek R.S.	4/27	94	39.2	31.0	18.0						
Stuart R.S.	4/25	12	5.0	11.0	1.8	4/25	2.81	2.15	19.87	13.77	144
Upper Joe's Valley	4/25	34	13.3	14.9	6.2						
Wrigley Creek	4/25	40	14.7	17.7	8.9						
MUDDY RIVER											
Black's Fork	4/24	50	20.8	23.0	11.9						
Dill's Camp	4/24	45	16.5	19.4	10.9	4/24	3.26	--	25.44	--	--
FREMONT RIVER											
Black's Flat-U.M. Creek	4/24	44	16.9	16.9	9.1	4/24	3.79	2.65	22.71	14.75	153
Donkey Reservoir		NOT SCHEDULED									
Fish Lake	4/24	55	23.5	15.8	4.8	4/24	2.76	2.16	23.36	11.34	205
Johnson Valley	4/24	36	13.9	11.9	4.2						
SOUTHEASTERN UTAH DRAINAGES											
Buckboard Flat	4/27	28	9.1	19.2	8.4	4/27	3.55	2.75	22.47	20.89	107
Camp Jackson	4/27	18	6.0	20.8	7.3	4/27	3.05	2.42	18.38	19.20	95
LaSal Mountain (lower)	4/26	43	12.8	17.4	4.9						
LaSal Mountain (upper)	4/26	72	21.2	29.2	14.2	4/26	5.55	2.99	29.01	17.17	168
Monticello City Park				0.0							
UPPER SEVIER RIVER (South of Richfield, Utah)											
Box Creek	4/24	59	23.9	24.0	12.5	4/24	5.95	2.99	26.58	16.88	157
Bryce Canyon	4/26	0	0.0	6.2	0.8 <sup>a</sup>						
Castle Valley	4/27	31	12.5	25.3	7.7	4/27	5.46	3.24	24.55	17.13	143
Duck Creek R.S	4/27	1	0.1	27.3	9.2	4/27	2.87	3.11	18.67	19.64	95
Harris Flat	4/27	0	0.0	11.3	2.9	4/27	0.88 <sup>a</sup>	--	8.95 <sup>a</sup>	--	--
Kimberly Mine	4/28	78	33.0	28.3	16.2	4/27	13.58	4.44 <sup>b</sup>	39.53	22.61	174
Midway Valley	4/27	54	19.4	47.2	23.7	4/27	5.00 <sup>a</sup>	--	24.03 <sup>a</sup>	--	--
Panguitch Lake	4/27	4	1.5	12.4	1.0	4/27	2.70	1.50	12.54	9.39	133
Squaw Springs	4/24	27	11.6	12.8	4.4						
LOWER SEVIER RIVER (Including San Pitch River)											
Beaver Dams	4/25	48	21.4	16.6	7.7	4/25	4.14	3.27	31.06	16.34	190
Farnsworth Lake	4/24	97	39.8	31.3	22.1	4/24	8.75	4.69	37.92 <sup>a</sup>	24.25	156
G.B.R.C. Headquarters	4/24	82	34.8	28.1	16.7	4/24	5.56	4.26	35.38	22.55	156
G.B.R.C. Majors								2.15 <sup>b</sup>		10.66	
G.B.R.C. Meadows	4/25	109	48.0	40.4	25.9	4/25	7.67	5.17	40.52	26.84	150
G.B.R.C. Oaks								3.01		14.88	
Gooseberry Reservoir						4/25	3.58	3.60	32.38	21.71	149
Gooseberry R.S.	4/24	58	25.4	16.6	9.4	4/24	6.17	3.01	28.78	14.88	193
Mammoth-Cottonwood Creek	4/25	73	32.6	35.2	19.9	4/25	2.63 <sup>a</sup>	3.61	32.10 <sup>a</sup>	16.52	194
Middle Fork											
Mt. Baldy R.S.	4/25	98	41.8	41.0	25.2 <sup>b</sup>	4/25	7.35	3.93	32.54	20.83	156
Oak Creek	4/28	55	21.9	26.9	7.5 <sup>a</sup>	4/28	4.57	3.83	28.50	19.79	144
Pickle Keg Springs	4/24	79	35.4	26.1	16.1 <sup>a</sup>	4/24	7.75 <sup>a</sup>	--	39.81 <sup>a</sup>	--	--
Pine Creek	4/28	103	45.3	34.8	13.9	4/28	12.60 <sup>a</sup>	5.88	53.04 <sup>a</sup>	29.35	180
Ree's Flat	4/24	52	22.0	23.5	10.8	4/24	2.28	--	26.48	--	--
Shingle Mill	4/30	53	22.4	9.6	2.5 <sup>b</sup>	4/30	9.50	3.87 <sup>b</sup>	37.45	19.55 <sup>b</sup>	191
Thistle Flat											

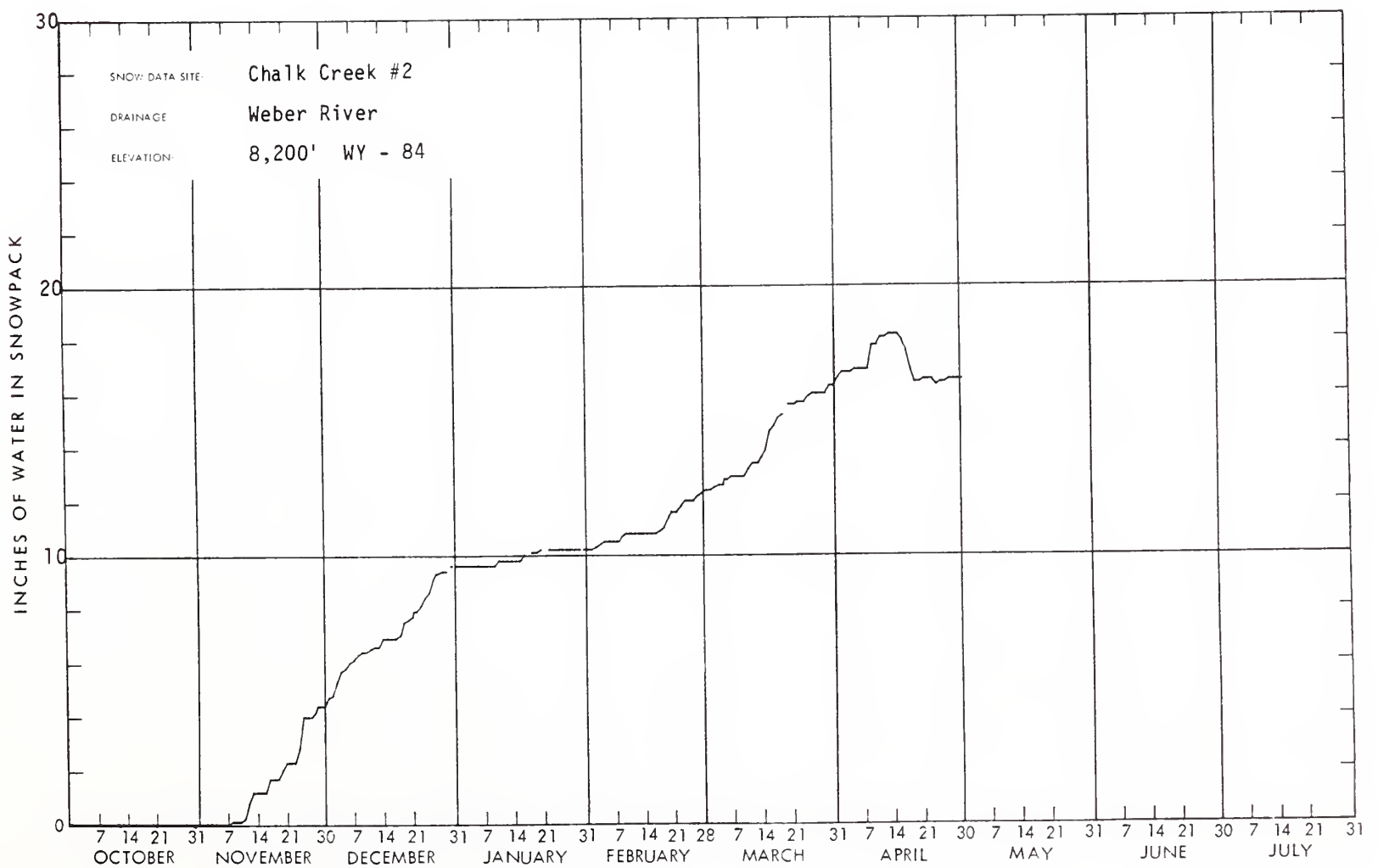
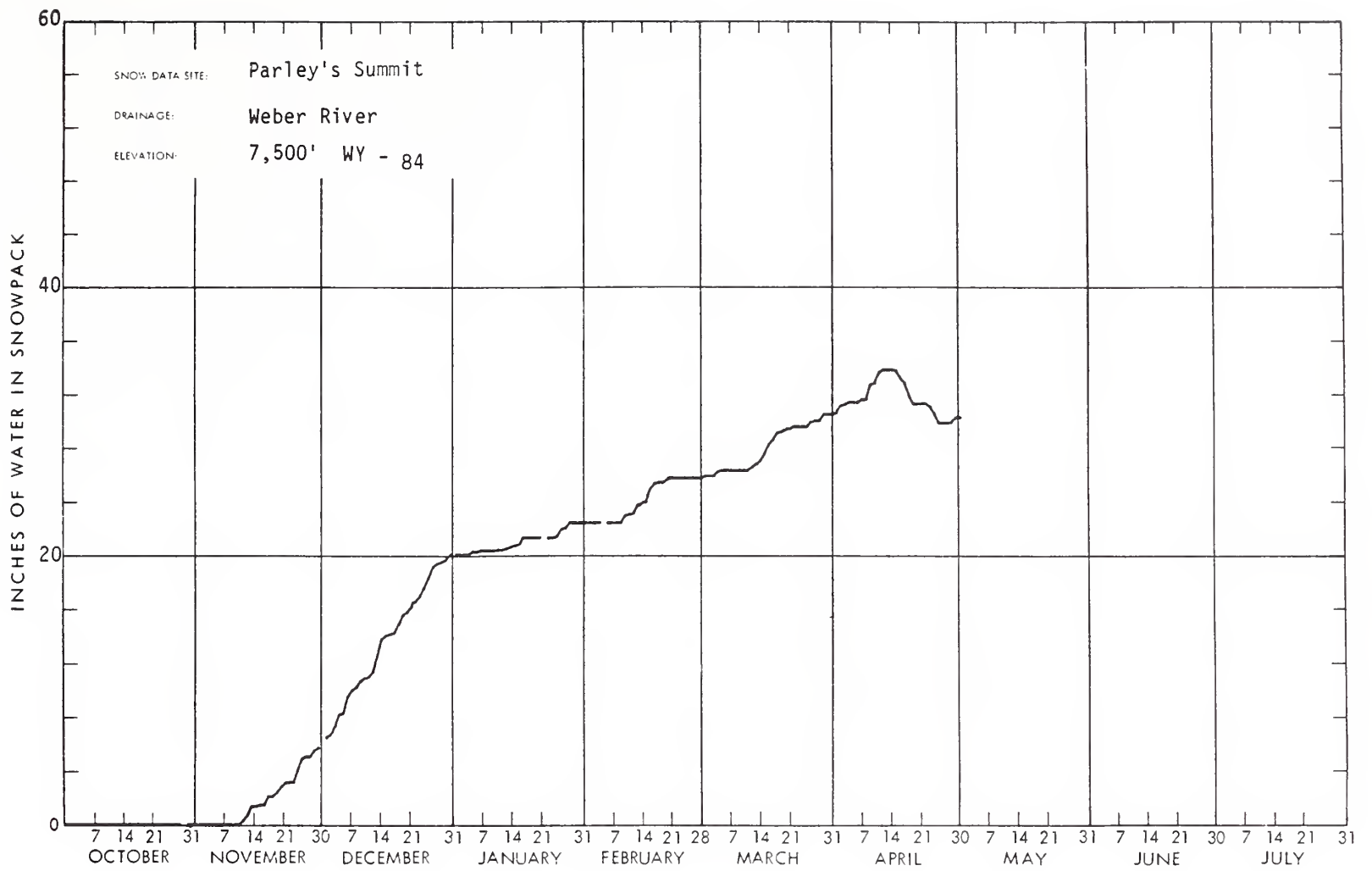
# SNOW

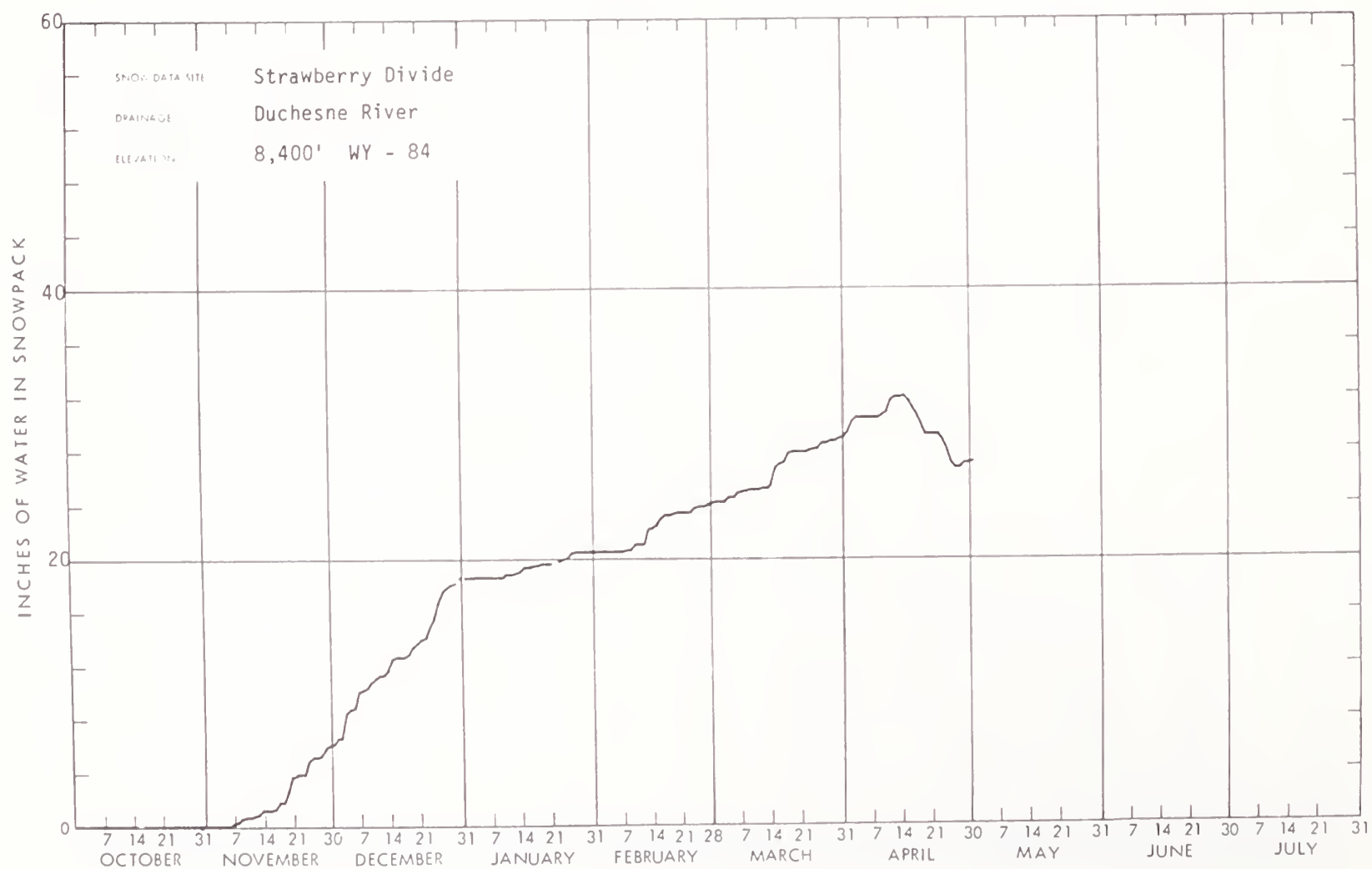
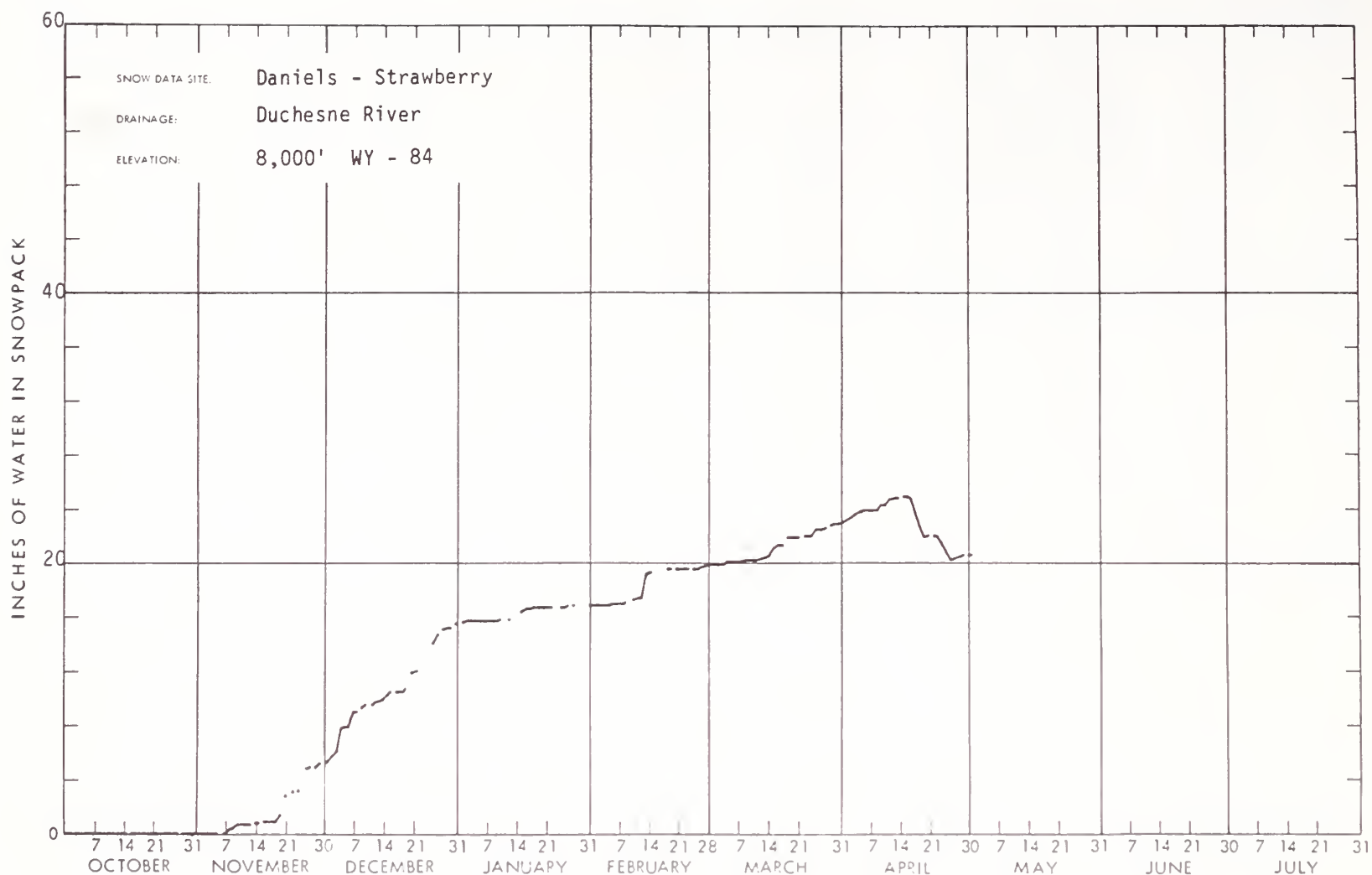
DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
BEAVER RIVER											
Beaver Canyon Power House											
Beaver Race Track											
Big Flat	4/28	80	32.8	36.6	20.2	4/28	6.22	3.47	30.02	19.00	158
Merchant's Valley (upper)	4/28	45	18.0	20.7	7.6	4/28	5.68	2.96 <sup>b</sup>	26.25	17.21	152
Otter Lake	4/28	58	22.5	28.4	13.6						
PAROWAN CREEK											
Birch Crossing	4/30	14	4.6	9.2	2.1 <sup>b</sup>						
Brian Head	4/27	72	29.1	34.4	22.5 <sup>b</sup>						
Tall Poles	4/30	45	17.5	22.0	13.6 <sup>b</sup>	4/30	5.13	3.48 <sup>b</sup>	23.63	18.37 <sup>b</sup>	128
Yankee Reservoir	4/27	39	14.2	19.3	6.9	4/27	1.45	3.01	15.85	15.14	104
ENTERPRISE TO NEW HARMONY DRAINAGES											
Little Grassy Creek	4/27	0	0.0	0.0	0.2 <sup>b</sup>	4/27	2.38	1.80	13.97	16.29	85
Long Flat	4/27	1	0.1	13.1	1.8	4/27	4.03	2.27	11.21	13.90	80
COAL CREEK											
Cedar City Golf Course	4/30	0	0.0	0.0	0.0 <sup>b</sup>						
SUSC Ranch	4/30	0	0.0	15.8	3.2						
ESCALANTE RIVER											
Widtsoe-Escalante #3	4/27	24	8.2	21.4	10.1	4/27	4.43	3.14	17.65	15.21	116
VIRGIN RIVER											
Kolob-Crystal	4/27	42	15.6	46.0	22.3 <sup>a</sup>	4/27	4.63 <sup>a</sup>	--	25.95 <sup>a</sup>	--	--
Long Valley Junction	4/27	0	0.0	0.0	0.0 <sup>b</sup>						
Webster Flat	4/27	29	10.1	38.2	16.0	4/27	6.47	3.81	24.91	23.08	107
a - Partly Estimated b - Average of past record in average period - less than 15 years † - 1963-77 15 year average period (A) - Aerial Marker Reading											

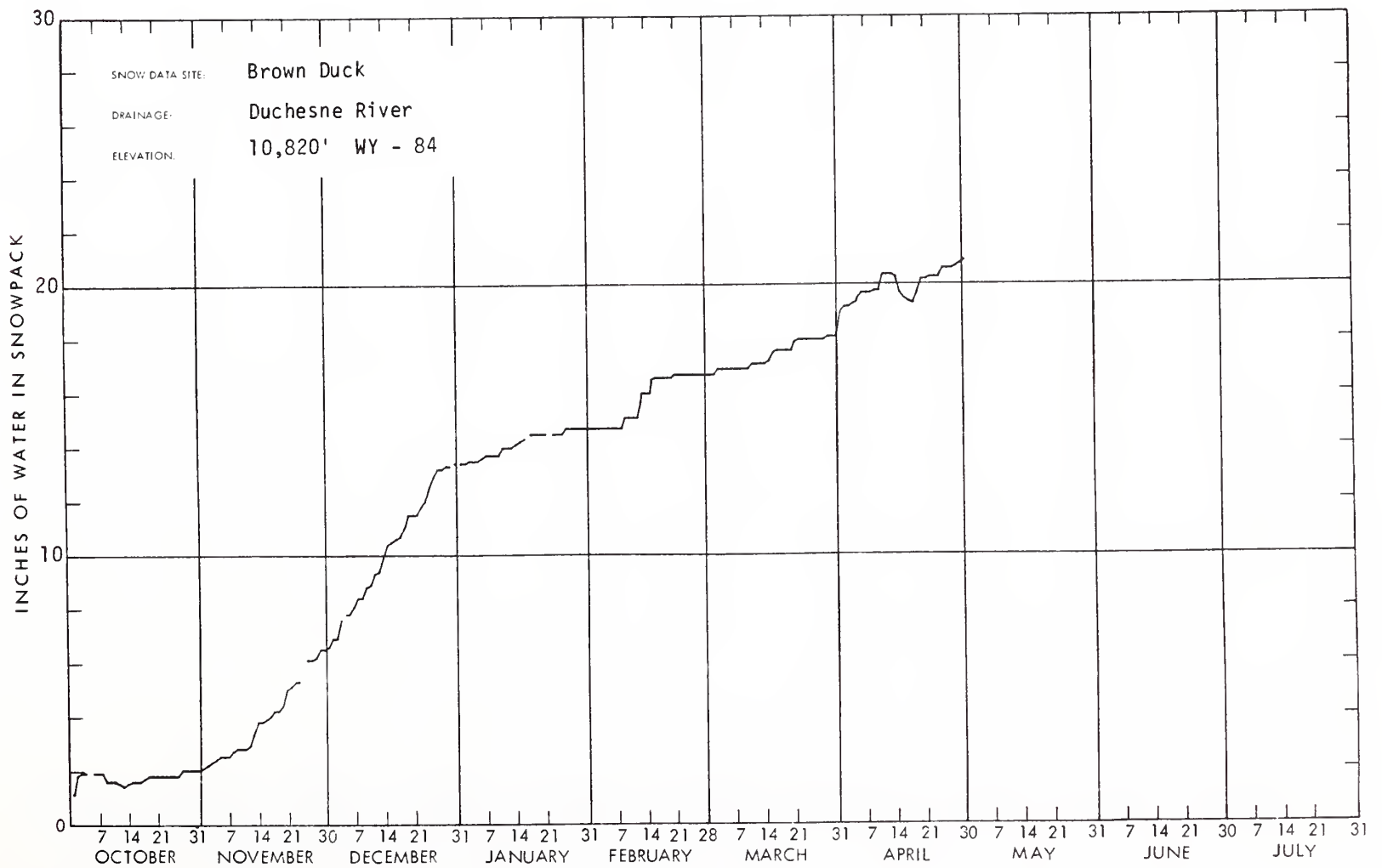
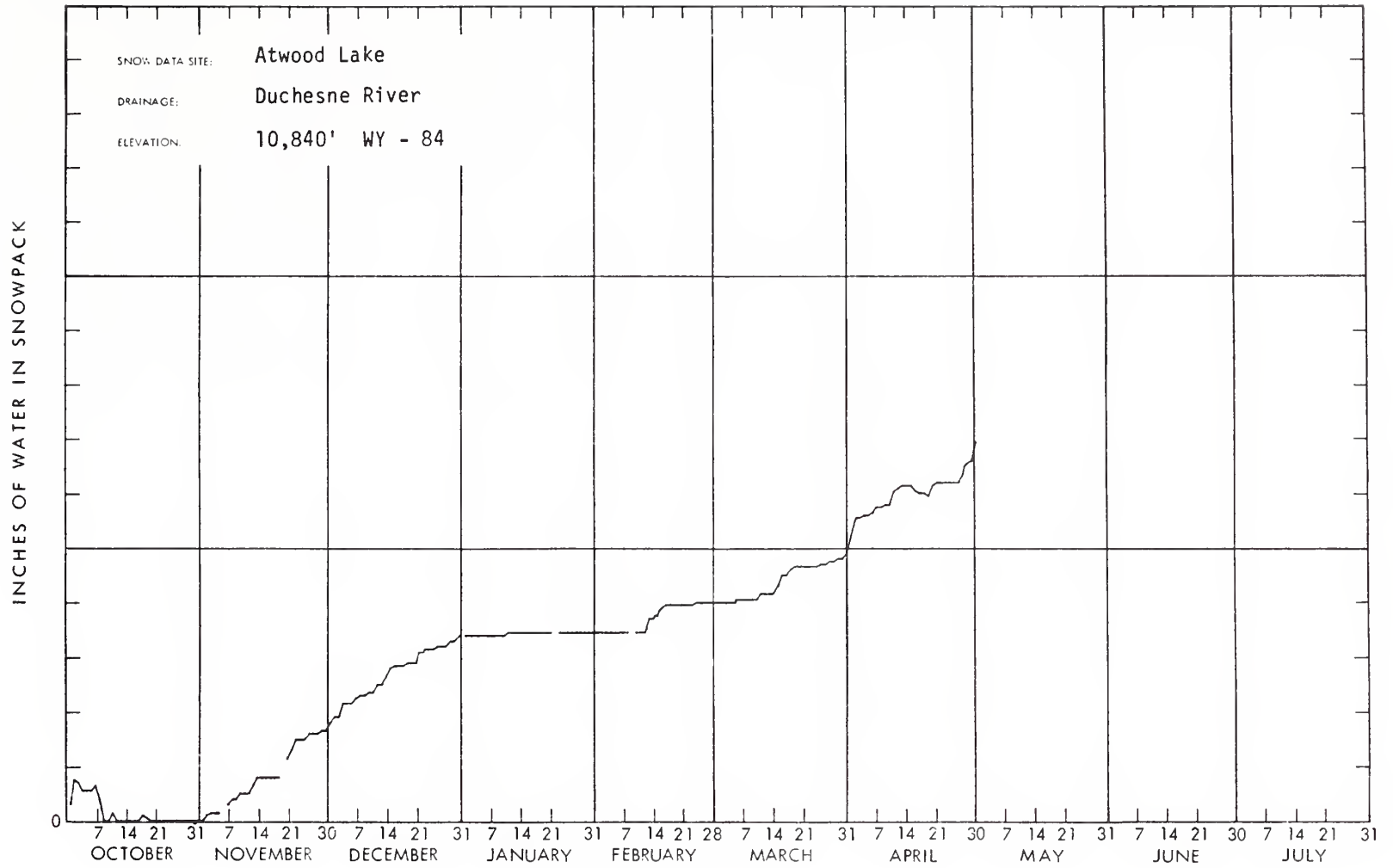




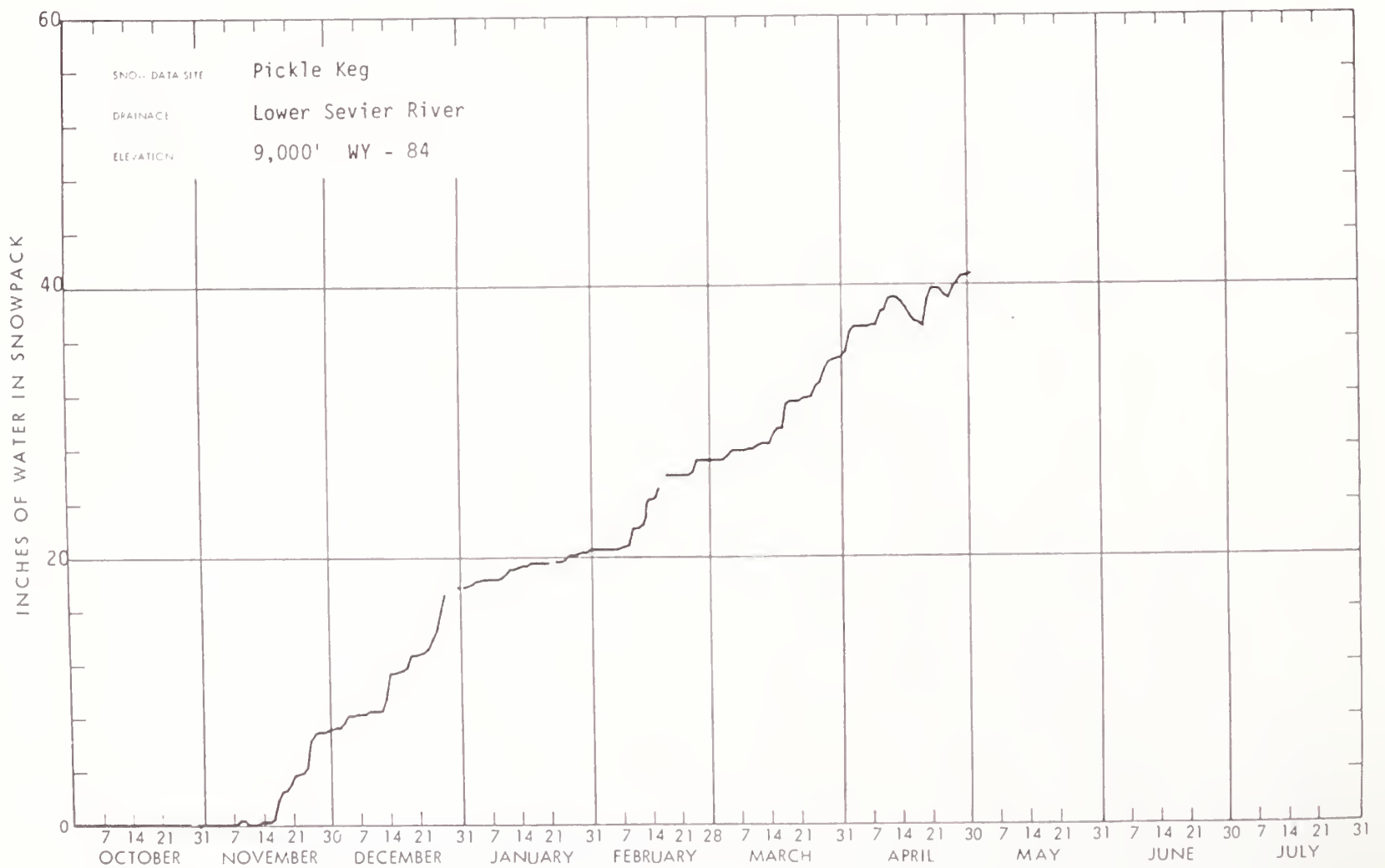
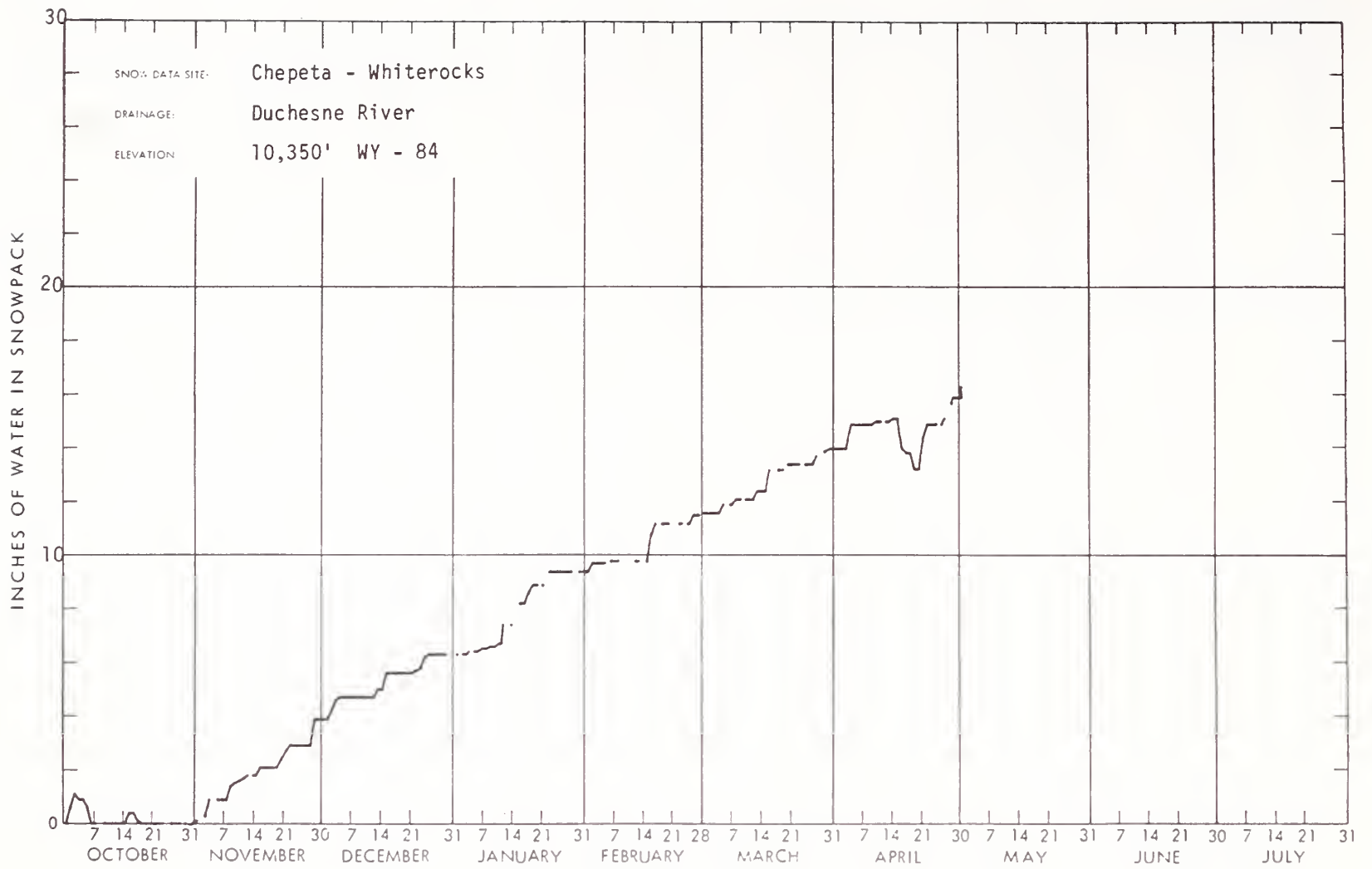


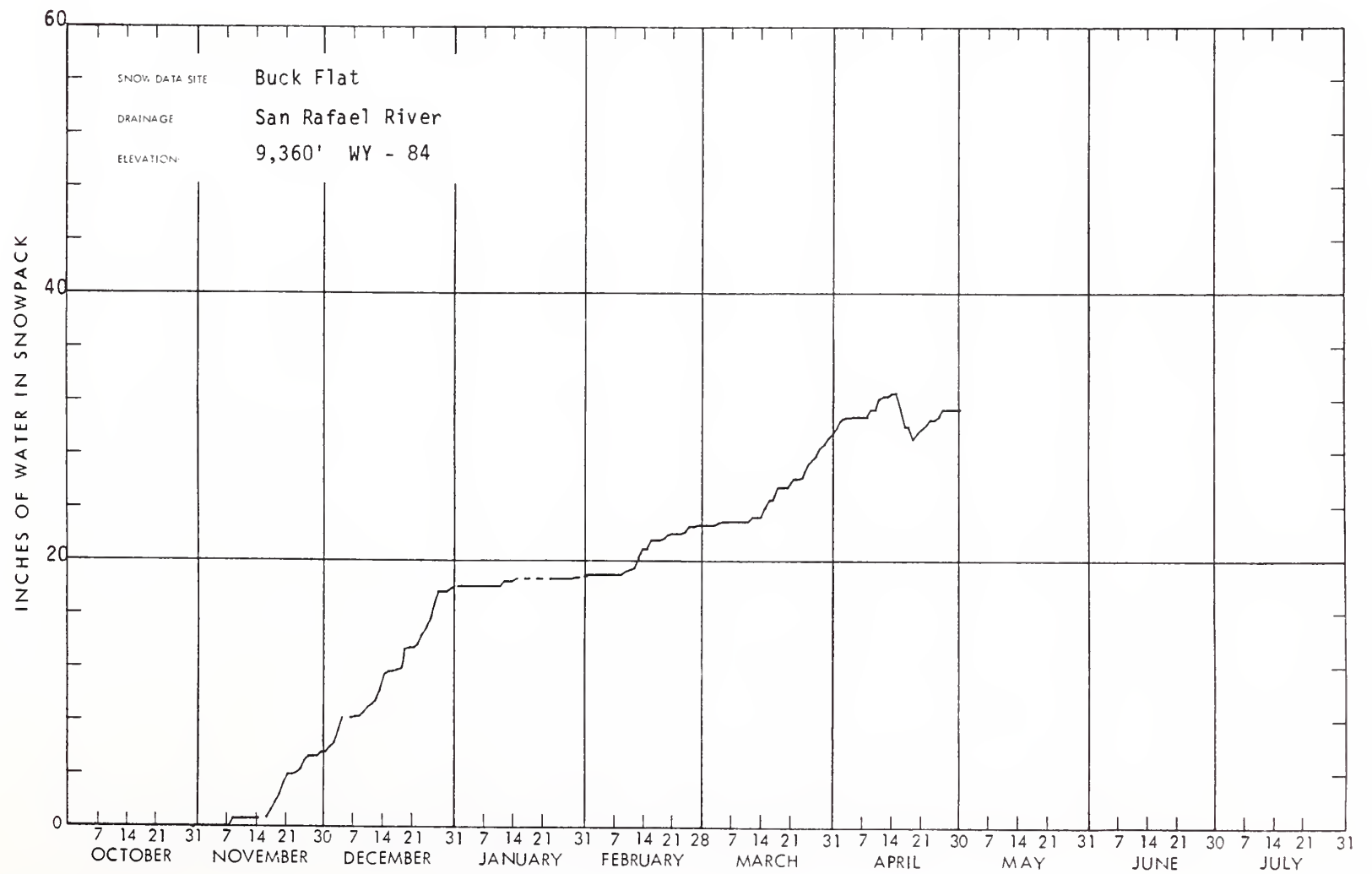
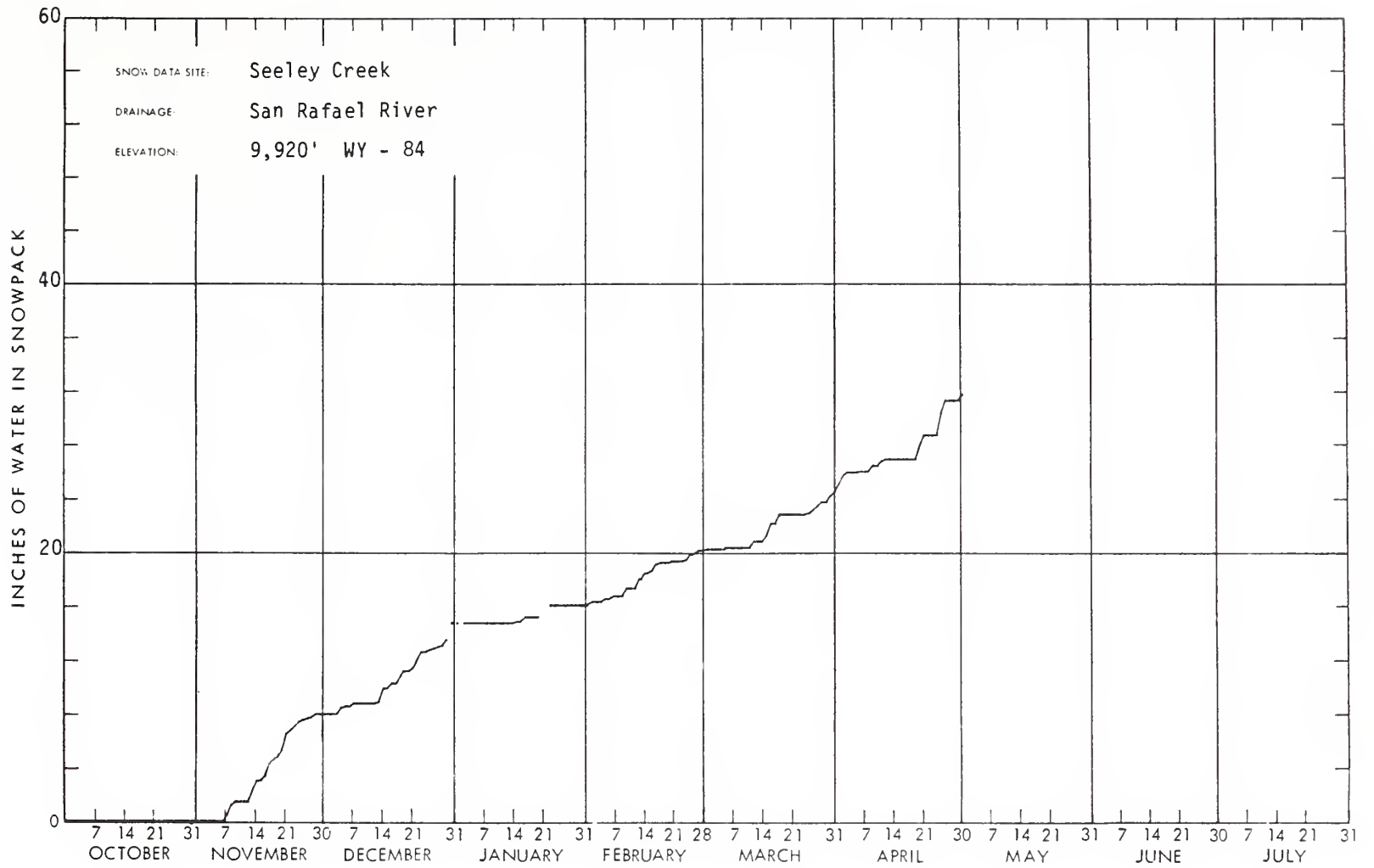


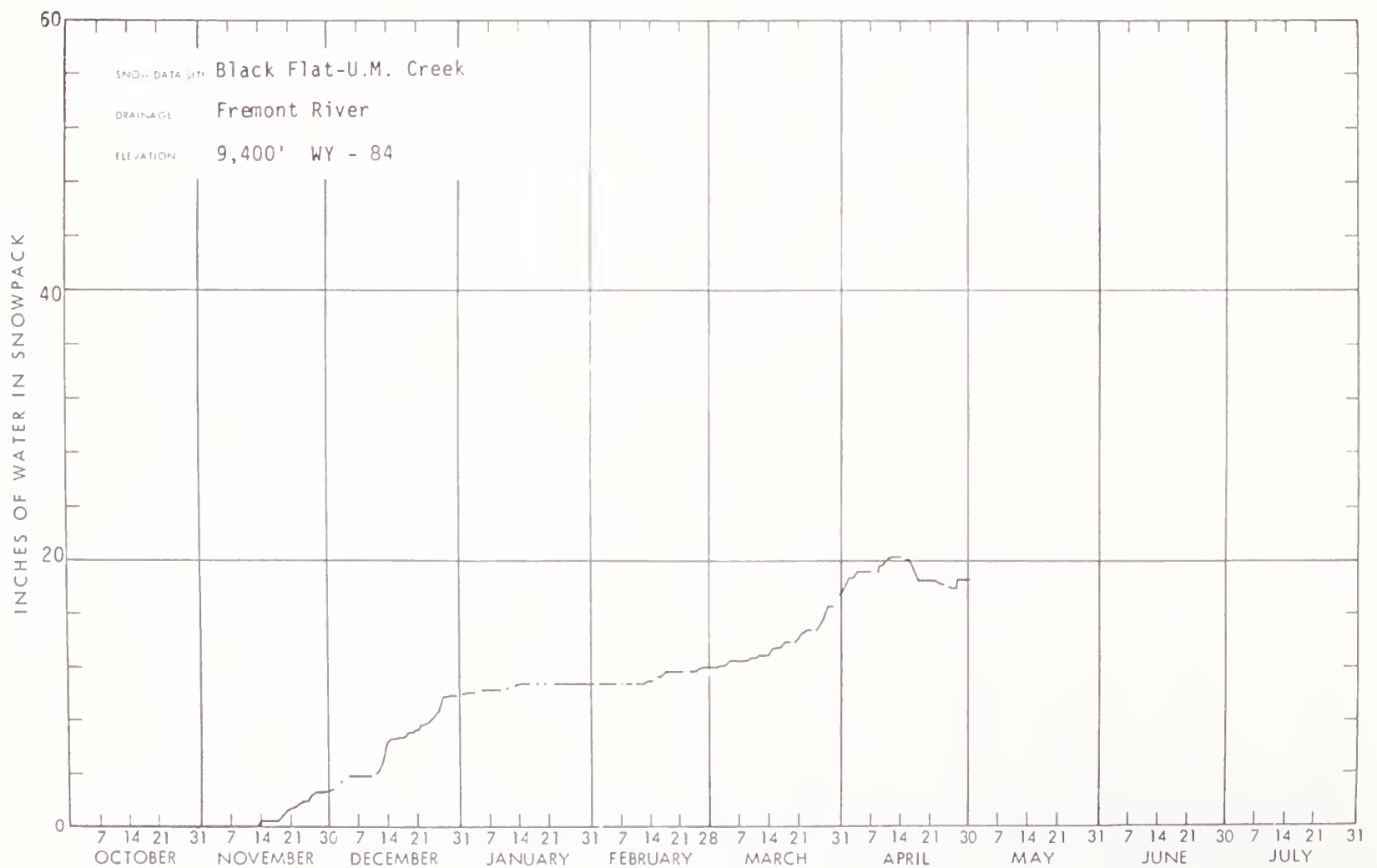
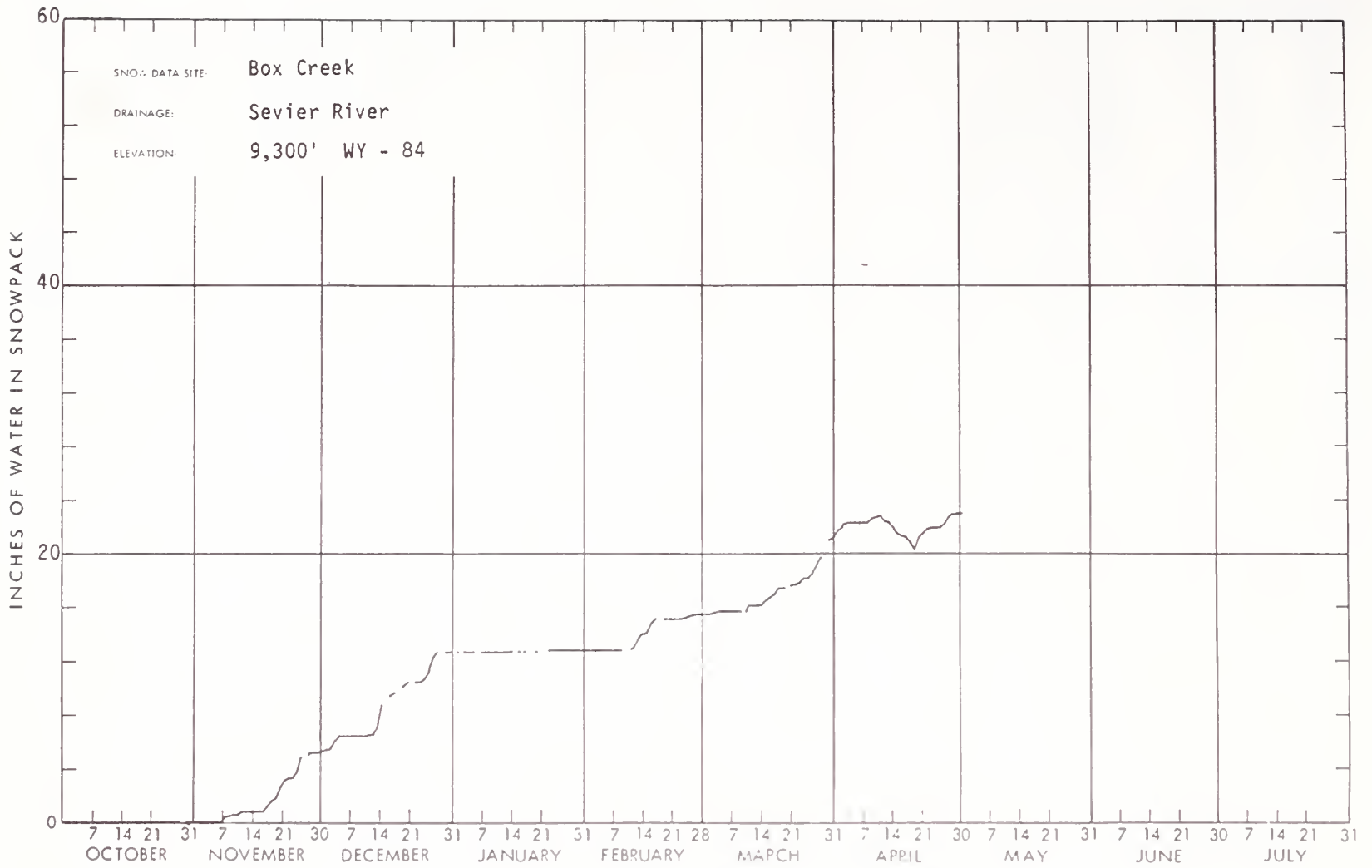




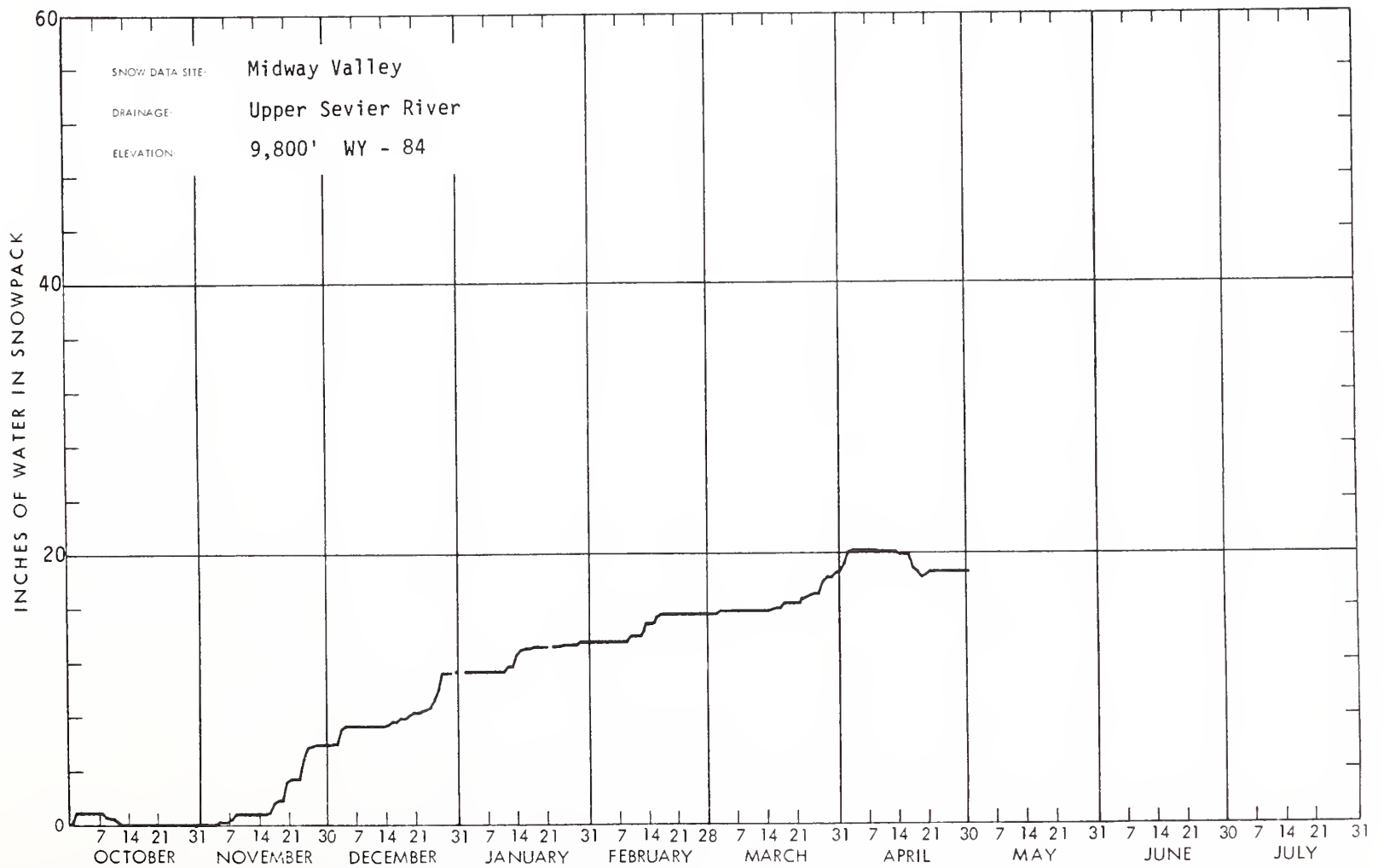
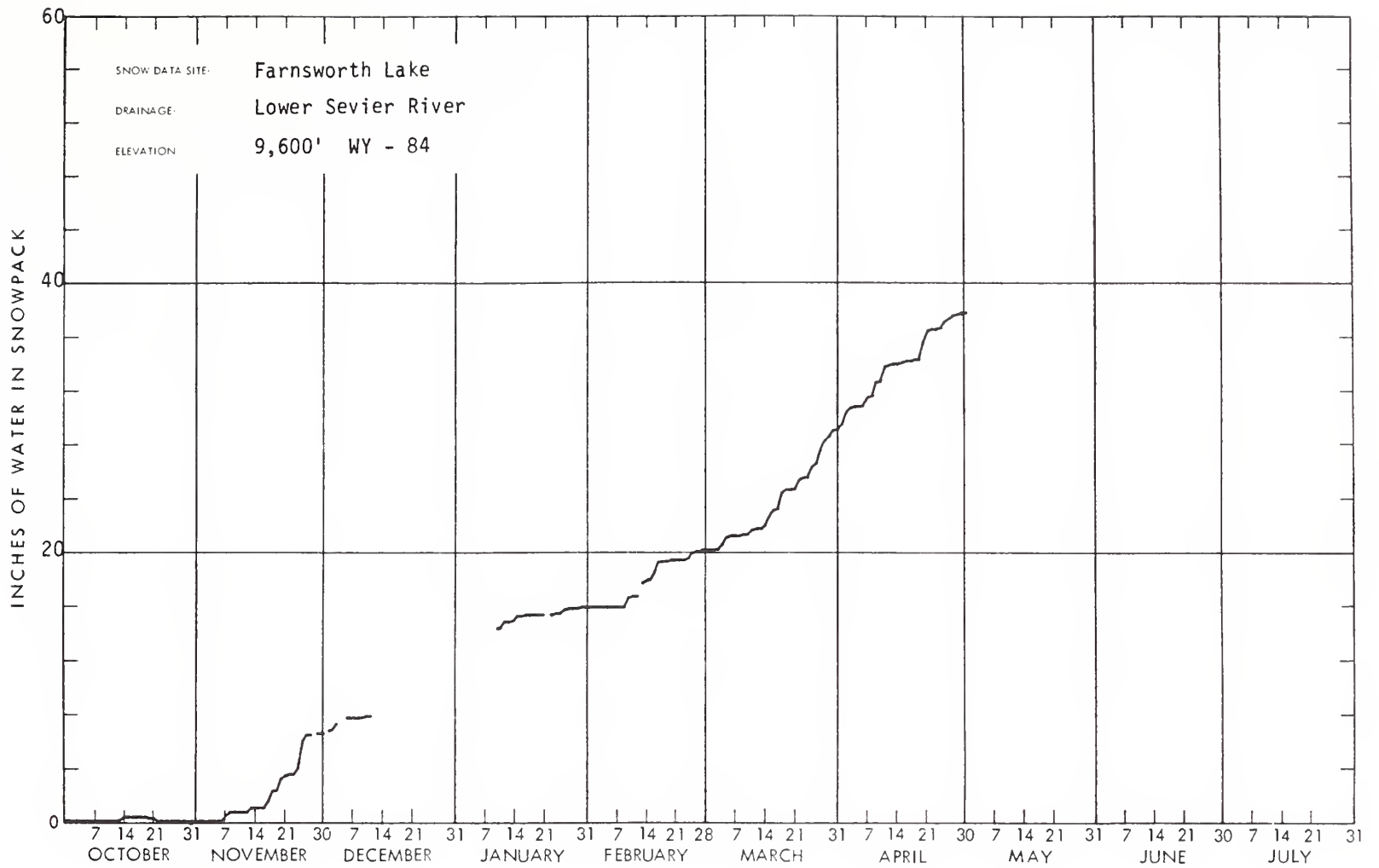






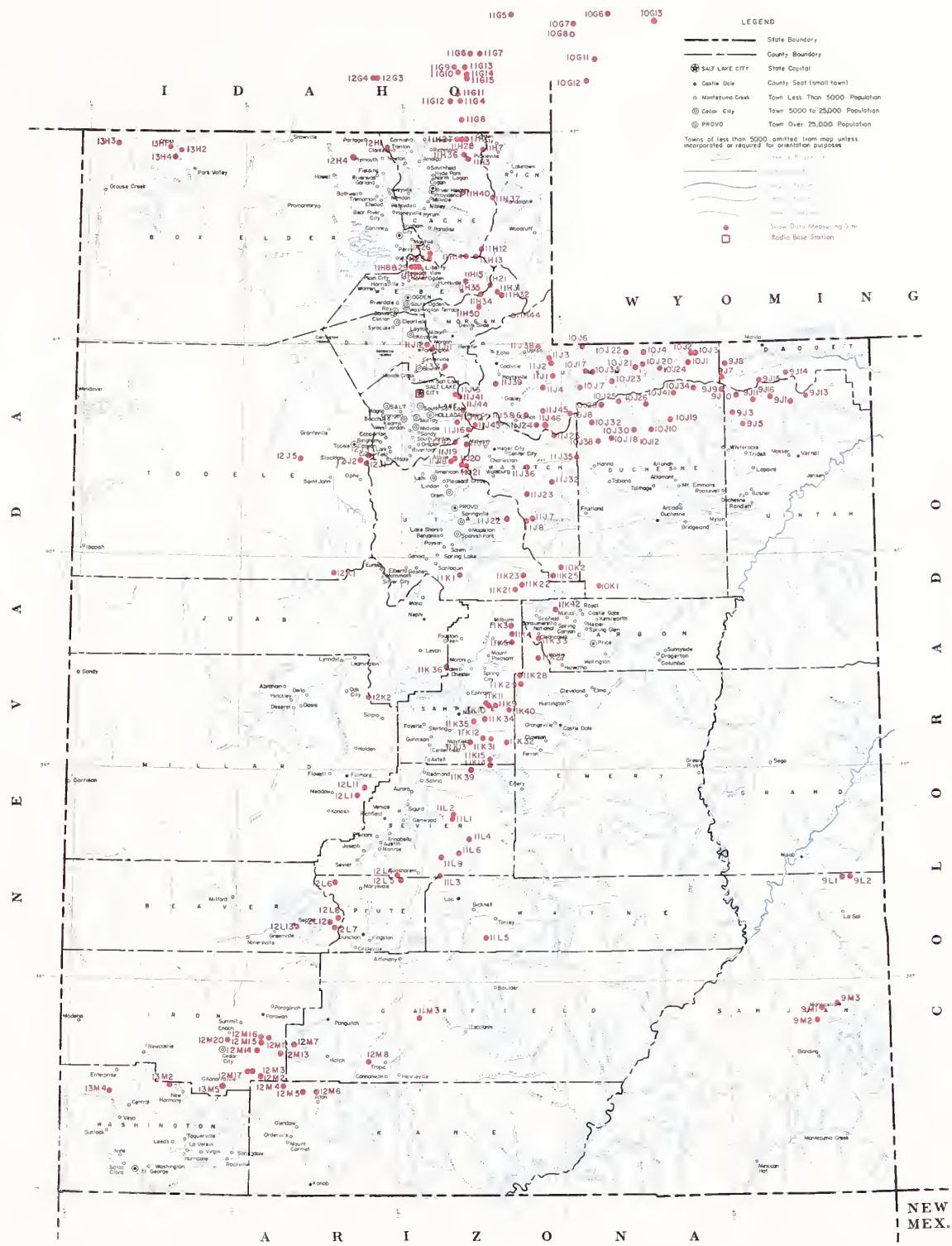








USDA/CSIS FORT WORTH, TEXAS 1983 M7-CL-22027



# SNOW COURSES AND RELATED DATA MEASURING SITES UTAH

1983

20 0 20 40  
ALBERS EQUAL AREA PROJECTION

USGS National Atlas (1:250,000 Atlas)  
Equal-Area projection (1962) used as source  
for base map and adapted for USGS use





# **Agencies Cooperating in Utah Snow Surveys**

## **U. S. GOVERNMENT AGENCIES**

- U. S. Department of Agriculture
  - Soil Conservation Service
  - Forest Service
- U. S. Department of Commerce
  - NOAA, National Weather Service
- U. S. Department of Interior
  - Bureau of Reclamation
  - Geological Survey
  - National Park Service

## **STATE AGENCIES**

- Utah State University
- Utah State Department of Natural Resources
  - Division of Wildlife Resources
  - Division of Water Resources
  - Division of Water Rights
  - Bear River Commissioner
  - Price River Commissioner
  - Provo River Commissioner
  - Sevier River Commissioners
  - Spanish Fork River Commissioner
  - Utah Lake and Jordan River Commissioner

## **MUNICIPALITIES**

- Manti
- Salt Lake City

## **ORGANIZED PUBLIC AGENCIES**

- Beaver River Water Users Association
- Board of Canal Presidents - Jordan River
- Central Utah Conservancy District
- Emery Canal and Reservoir Company
- Moon Lake Water Users Association
- Ogden River Water Users Association
- Provo River Water Users Association
- Strawberry Water Users Association
- Sevier River Water Users Association
- Weber River Water Users Association
- Weber Basin Conservancy District

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with the Snow Survey"*

100-  
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